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THE NATIONAL GEOGRAPHIC MAGAZINE

THE U. S. COAST AND GEODETIC SURVEY*

BY O. H. TITTMANN, SUPERINTENDENT

FIVE years from now the Coast and Geodetic Survey may celebrate the centenary of the act creating it, for it was in 1807 that Congress passed "An act for surveying the coasts of the United States." The President was authorized and requested to cause a survey to be taken of the coasts of the United States, in which shall be designated the islands, shoals, with the roads and places of anchorage within 20 leagues of any part of the shores of the United States, and also the respective courses and distances between the principal headlands, together with such other matters as he may deem proper for completing an accurate chart of every part of the coasts within the extent aforesaid. He was also to cause such examinations and observations to be made with respect to Saint Georges Bank and any other bank or shoal and the soundings and currents beyond the distance aforesaid to the Gulf Stream as in his opinion may be especially subservient to the commercial interests of the United States.

To Professor Patterson, of Philadelphia, is due the credit of having urged the undertaking, and to President Jefferson and Secretary Gallatin of having interested themselves and given their support to the suggestion of Professor Patterson.

In 1807 the coasts of the United States extended from the eastern boundary of Maine to the northern boundary of Florida, for the latter still belonged to Spain. The coast of Louisiana between the Sabine and the Mississippi had recently been acquired, and gave to the United States a small, if important, strip of coast on the Gulf. These, then, were the coasts which at that time were deemed needful to be surveyed in the interests of commerce. Not that no charts existed of the regions in question; Des Barres, His British Majesty's Surveyor General for the Colonies, had begun the good work, which was interrupted by the War of the Revolution, but at best the results of his surveys were meager, insufficient, and inaccurate.

ITS INCEPTION

may be worth while to call attention to and to dwell for a moment on e unusual but eminently practical and s nsible measures that were taken to

*An address before the National Geographic Society, November 21, 1902.

bring the Survey into existence after it had been authorized by Congress.

Mr Gallatin's first step was to invite the opinion of scientific men as to the plans to be adopted, in a circular setting forth the objects to be attained. Thirteen replies were received, and these were referred to a committee of the American Philosophical Society, which recommended the adoption of the plan submitted by Mr Hassler. We shall presently see that 36 years later another committee of learned men, called together to reorganize the Survey, affirmed and adopted the scientific methods of Hassler and adapted them to the larger work devolved on the Survey by the extension of our domain. It thus happens that in the case of the Coast Survey the most competent authorities of the times were consulted to prescribe the principles on which the work was to be carried out. This later generation of men may well be thankful for the prevision of the two statesmen who gave direction to the work, and for the wisdom of those who conceived in those early days the broad lines on which the work was to be conducted; for though the methods have been modified, changed, and perfected, the principles then prescribed have guided the Survey ever since.

THE NEED FOR A COAST SURVEY

The problem before the Survey was to perform a national as well as an international duty. It behooves every country, in the interests of humanity, to safeguard the lives and property which are continually at stake on the great highways of commerce along the shores of the oceans; and the first step toward the fulfillment of this obligation is to map the coasts and chart the waters, in order that the mariner may have before him a graphic guide of the routes he must follow to insure the safety of the lives and property committed to his charge. The high seas claim their victims through fogs and storms and collisions, but to the experienced navigator the open ocean is a place of safety, while a proximity to the coasts, even where surveys and light-houses have minimized the risks, inspires feelings of grave responsibility and even of dread of hidden dangers, of unknown currents, and of collisions where busy commerce concentrates in narrowing lines the coming and departing ships.

Mr Hassler, whose plan was adopted, was a Swiss by birth, a man of great learning and well qualified by experience to outline the scientific principles on which an extended survey was to be conducted. His task was a difficult one, for neither men trained in the profession nor instruments were to be had in our country, nor was there a common appreciation of the importance of the work at that time. He went to England in 1811 to procure instruments, but the war with that country deferred the accomplishment of his purpose. It was not until 1816 that he was appointed Superintendent, and though he immediately began his operations with vigor they were cut short by the practical abolition of the Survey two years later through the revocation of the authority to employ civilians on the work. Its connection with the Treasury Department ceased, and the country became dependent for its charts on the private enterprise of the Messrs Blunt, of New York, and on fitful and unsystematic surveys made under the Navy Department. On the recommendation of the Secretary of the Navy the original act of 1807 was revived and the Survey was resumed in 1832 under Mr Hassler's direction, and it was again placed under the Secretary of the Treasury, only, however, to be retransferred to the Navy in 1834. This arrangement again proved to be unsatisfactory, and in 1836 the Survey was finally placed under the Treasury Department.

Suggestions for changing its status were again made, and its condition of apparent unstable equilibrium prompted Congress to take the matter in hand. Reference has already been made to a committee which was appointed by act of Congress in 1843 to reorganize the Survey. It consisted of six commissioned officers—that is, two officers of the Navy, four of the U. S. Topographical Engineers, all experienced in the work of the Survey, and three civilians. The act of Congress provided that the work should be conducted in accordance with the plan of reorganization of this committee, but prescribed that as many army and navy officers should be employed upon the work as would be compatible with the successful prosecution of the work.

At the same time the committee made the following recommendation:

"*Resolved*, That inasmuch as the object and purpose of the survey of the coast refers principally to the commercial interests of the country, and as all the laws of Congress in relation to the same contemplate the employment of civilians and officers of the army and navy upon said work, it is the opinion of this board, and they do hereby respectfully recommend, that it should be under the control and considered a part of the Treasury Department."

The President's formal approval of the plan of reorganization and of the recommendation just recited placed the Survey under the Treasury Department, where it has remained ever since.

Before describing its present organization, it must be explained why the original one was gradually modified by the withdrawal of army and navy officers from participation in its work.

During the Mexican war the withdrawal of all the navy officers was threatened, and nearly all the army officers were withdrawn. At the outbreak of the civil war in 1861 all army and navy officers were withdrawn and the connection of the Army with the Survey ceased altogether. The navy officers did not return until about 1870, but as the needs of the country required the continuation of the Survey, its execution was entrusted entirely to civilians during these years.

At the outbreak of the Spanish war the progress of the Survey was again endangered by the sudden withdrawal of all the navy officers and enlisted men of the navy. With the concurrence of the Secretary of the Navy, Congress made provision to put the Survey on an entirely civil basis. Its present organization may be described as follows:

PRESENT ORGANIZATION

The head of the Survey, called the Superintendent, reports to the Secretary of the Treasury. The Superintendent is charged with full responsibility in every respect for all the work of the Bureau. He is aided in such of his duties as cannot be delegated to officers of lower rank in the organization, by an Assistant Superintendent, who acts as Superintendent in his absence.

Eight officers or groups of officers report directly to the Superintendent and Assistant Superintendent, viz:

The assistant in charge of the office.
The inspector of hydrography and topography.
Inspector of geodetic work.
Inspector of magnetic work.
The disbursing officer.
Editor.
Chiefs of field parties.
Heads of suboffices.

The first four of these officers have a general supervision over all the operations of the Survey indicated by their designation, each acting as an advisory officer to the Superintendent in regard to the specified portions of the work. The chiefs of field parties and the heads of suboffices have direct charge of all operations in the field.

Each field party is a temporary organization which is created for a specific operation by an order of the Superintendent, which makes one of the officers of the field force the chief of party, and if necessary assigns to him as subordinates one or more other officers from the same force. The party is disbanded when the work assigned to it has been completed. If the party is for duty on land, the remainder of the organization of the party, the hiring of recorders, laborers, drivers, etc., is left entirely to the chief of party. If the party is for duty on a vessel, the assignment of an officer of the field force to command the vessel carries with it necessarily the command of the whole force on board the vessel, including watch and deck officers as well as crew.

Congress has provided for over 100 field officers, of which number about 77 are subject to ship or shore duty, and are also subject to office duty between field seasons, while about 30 are mainly engaged in hydrographic surveying and ship duty.

The Survey has its own fleet of twelve steamers and six sailing vessels, aside from launches and other small craft.

There are at present two suboffices, each in charge of a field officer reporting directly to the Superintendent, viz., at San Francisco, California, and Manila, Philippine Islands. The purpose of these suboffices is to aid in the prompt dissemination of information, to serve as storage depots, and to save traveling expenses by providing points at which the field officers may be temporarily assigned to office duty between the seasons. At the Manila suboffice the publication of preliminary charts is authorized.

DUTIES OF THE OFFICE FORCE

The inspector of hydrography and topography, reporting directly to the Superintendent, has general supervision over the classes of field work indicated by his title, places before the Superintendent plans for such work, makes the necessary inspection in the field to insure that the Superintendent's orders are carried out economically and effectively, and is especially charged with the supervision of all matters relating to the ships and their personnel. The *Coast Pilot*, a publication in several volumes, giving full description of the coast from the mariner's point of view, sailing directions, warnings as to dangers to navigation, and other information of special value to navigators, is prepared under his direction.

The inspector of geodetic work, reporting to the Superintendent, is charged with the duty of preparing plans for the field operations of triangulation, astronomical determinations and precise leveling, and of making inspections of parties in the field, and of records and correspondence received at the office from field parties, with a view of insuring that the field operations are in accordance with the Superintendent's orders, are of the desired degree of accuracy, and are efficient and economical.

The inspector of magnetic work, reporting to the Superintendent, is charged with similar duties in regard to the magnetic work of the Survey.

The assistant in charge of the office, reporting to the Superintendent, supervises the work of the office at Washington, is charged with the disbursement of all moneys allotted for that office, is responsible for the safety and arrangement of archives and property, and receives all money paid to the Survey for charts and other publications. As the official head of the office, the chiefs of the following divisions of the office force report to him: Computing Division, Magnetic Division, Tidal Division, Drawing and Engraving Division, Chart Division, Library and Archives Division, Instrument Division, and Miscellaneous Division. Each of these divisions, under the direction of the assist-

ant in charge of the office, prepares replies for the Superintendent's signature to such parts of the correspondence as falls within its particular field, and also furnishes such information and equipment to field parties as it is within their power to furnish.

In the computing division all computations in connection with triangulation, astronomical determinations, and precise leveling are made, appropriate registers of results are kept, and the results prepared for publication as rapidly as possible.

The magnetic division and the tidal division deal similarly with the computations and publications of magnetic and tidal results respectively.

The drawing and engraving division is divided into five sections:

The photographing section, engaged in reducing, enlarging, and reproducing drawings for various purposes.

The drawing section, engaged in making from the original topographical and hydrographical field sheets the office drawings, which are the original from which charts are produced, either by engraving on copper or by photolithography.

The engraving section, engaged in copper-plate engraving.

The electrotype section, engaged in producing from the original engraved copper plates by electrotype process the copper plates actually used in printing the charts.

The printing section, engaged in printing charts from the copper plates (the lithograph printing is done by contract outside of the organization).

The chart division is divided into two sections. The hydrographic section is engaged in completing unfinished hydrographic sheets sent in from the field, in the correction of charts, especially with reference to aids to navigation (lights, buoys, etc.), preparation of monthly Notices to Mariners in regard to this matter, and the inspection of charts in their various stages of preparation. The chart section is engaged in applying such hand corrections to charts at the last opportunity before issuing as has become necessary on account of such changes, principally in aids to navigation, as have taken place after the chart was printed, and with the clerical work connected with the issue and sale of charts.

The library and archives division has charge of the library of the Survey and the archives in which all hydrographic and topographic sheets and all the original records and computations are stored.

The instrument division has charge of all the instruments and general property. Many of the best of the new instruments for the Survey are designed and made in this division, and it is continually engaged in repairing and remodeling necessary to keep the instrument outfit at a high standard of efficiency.

The miscellaneous division is charged with the purchase and distribution of all supplies required for use in the office and of such supplies as are furnished to field parties on requisition; also with the making of requisitions for printing and binding, the custody of blank forms, stationery, etc., and the distribution of the reports of the Superintendent and of all other publications of this Bureau, with the exception of charts.

As already noted, the accounting division, at the head of which is the disbursing officer, is not a division of the office in the sense of reporting to the assistant in charge of the office. The disbursing officer makes all disbursements on account of the Survey, with the approval of the Superintendent; renders a monthly account of all disbursements to the Auditor for the Treasury Department for audit by him, renders a statement of expenditures and balances to the Superintendent whenever required to do so, suspends returns

for correction, or disallows, under the Superintendent's direction, all items of expenditures irregular in form or in contravention of law or regulations, and refers to the Comptroller of the Treasury for decision all questions of law involving a payment to be made by him.

The editor, reporting to the Superintendent, compiles the administrative part of the annual report and acts as editor in connection with all other publications of the Survey except the charts.

THE EXTENSION OF FIELD WORK

The acquisition of Florida and Oregon in 1819 and of Texas and California soon after the reorganization of the Survey before described vastly extended the operations, and in view of the desirability of connecting the surveys of the Pacific and Atlantic coasts, a transcontinental triangulation was authorized in 1871. Eight years later, in recognition of one of its functions, the name of the organization was changed to that of Coast and Geodetic Survey.

When Alaska was purchased in 1867 the charting of its vast and intricate shore line was added to the duties of the Survey, and still more recently, in conformity with and in pursuance of the established policy, its labors were extended, to use the phraseology of the law, to all "the coasts under the jurisdiction of the United States," in order to include Porto Rico, Hawaii, Guam, the Samoan Islands, and the Philippines.

The plan of reorganization contemplated a chain of triangles along the coasts which should unite and coördinate all the local surveys. Astronomical observations were to fix the geographical position of the triangulation, and the differences of longitude between some of principal stations and Europe were to be determined.

The topography was to be carried inland as far as would subserve the purposes of commerce and defense, and, resting upon the data thus obtained, soundings were to be made along the shores and seaward to insure the safety of commerce. Such was the simple scheme, but there were inherent in it certain requirements for the accomplishment of which extended researches in many branches of science were needed, and there were inherent in it also possibilities for greater usefulness to the nation and the world than the mere attainment of the immediate objects sought. It was foreseen that the triangulation if carried out with sufficient care would ultimately form the basis of a national trigonometric survey. The great extent of territory to be covered indicated that the triangulation would be used to determine the size and figure of the earth, which is the ultimate base of dimensional astronomy. The need of compasses on the charts compelled the determination of at least one of the elements of the earth's magnetism and a study of the law of its variation. The rise and fall of tides required observations along the coasts which would disclose the law of their periodicity in order that predictions could be made long in advance; a needful regard to benchmarks to which the tides were referred would betray the subsidence or rise of the land. Observations on tidal and ocean currents were needful to supplement the other information on the charts. The determination of astronomical positions required the perfection of existing star places, and thus practical astronomy was stimulated, and when the importance of the geodetic function of the Survey was recognized by law, the pendulum, by means of which the figure of the earth can be determined, was employed in gravity research.

Deep-sea soundings and incidental physical observations and dredgings contributed no little to our knowledge of marine life.

XUM

WORK DONE BY THE SURVEY

What the Survey has accomplished in the 70 years of its active existence may be broadly stated as follows:

It has carefully mapped about 30,000 miles of topography and sounded out minutely nearly 300,000 square miles of water, while its deep-sea soundings cover a little less than a million square miles. The results of this work are shown on about 500 charts of unrivaled accuracy and beauty. But it must not be forgotten that its energies have been largely devoted to resurveys required by the constantly shifting bottoms of our southern shores. Bearing this fact in mind, it may be stated that is has completed a first survey of the Atlantic, Gulf, and Pacific coasts of the United States. It has observed tides at thousands of stations, and publishes annually in advance predictions not only for our own coasts, but for all the ports of the world to which our shipping is likely to go. It has covered an area of between three hundred thousand and four hundred thousand square miles with its network of triangulation, and has incidentally completed the measurement of an arc of the parallel traversing our country from ocean to ocean, and has measured an oblique arc extending from Maine to Louisiana.

It has run many thousand miles of precise levels.

It has determined transatlantic longitudes and covered the country with a homogeneous system of astronomically determined points. It has taken an active part in the delimitation of national and state boundaries.

It has undertaken the study of the law of the earth's magnetism, and made observations for determining the declination, dip, and intensity at many stations throughout our domain.

It has published and maintains Coast Pilot volumes of the Atlantic and Pacific coasts and parts of Alaska.

In regard to the present activity of the Survey, a few words will prove of interest. The completion of the transcontinental triangulation and that of the oblique arc has rendered it possible to adopt a single system of geographic coördinates for all points in this country which have been trigonometrically determined, and the office is engaged in the great and useful task of making the computations and preparing them for publication. Coöperation between the Lake Survey and the Coast Survey has resulted in the adoption by the former of the same system, and the necessary computations to bring about this unification have been made. At the same time, a comprehensive investigation of the deflections of the plumb-line throughout the area covered by the triangulation is in progress, and one of its immediate results will be to guide the Survey in making future gravity researches.

A few years ago Congress authorized, by increased appropriation and legislation, the extension of the magnetic survey of the country. Magnetic observatories, equipped with the most modern and economical appliances, are being maintained—one in Maryland, one in Kansas, one at Sitka, Alaska, and one in Hawaii. These observatories, at the formal request of the German government, are coöperating, in common with others under foreign governments, with the German and British South Polar Expeditions by making simultaneous observations. At the American observatories the magnetic instruments record photographically day and night the changes of the magnetic forces. Rapid progress has been made in the accumulation of magnetic data, their discussion, and publication. Meridian lines to aid surveyors are being established at or near county seats of the several states. There has just been issued a comprehensive volume of declination tables and isogonic charts.

As a member of the International

Geodetic Association, the Coast and Geodetic Survey supervises the maintenance of two astronomical observatories established exclusively for the purpose of observing the variation of latitude.

The Tidal Division has made good progress not alone in the reduction of tidal observations and in the publication of predictions, but has devoted attention to the theoretical investigations needful in this important and difficult branch of applied science.

The Coast Pilot Division issued last year a new Coast Pilot of Southeastern Alaska. It has in preparation another volume of the Pacific coast from San Diego to Puget Sound, and has just completed, in the field, an examination of the coast from Eastport to Point Judith.

The triangulation along the 98th meridian is progressing with remarkable rapidity in consequence of carefully devised plans, which prescribed the method to be followed along efficient and economical lines without any sacrifice of accuracy. During the last season an axial distance of about 400 miles was measured, which in itself constitutes an arc of no mean extent.

Speed trial courses based on the triangulation of the Survey have been laid out in various localities at the request of the Navy Department.

At the request of the states of Pennsylvania and Maryland, a remarking of Mason and Dixon's line has been undertaken by the Survey in coöperation with commissioners from those states, and the work is nearly finished.

Two officers of the Survey were appointed by the United States Supreme Court to take part in the remarking of the disputed boundary between Virginia and Tennessee, and this work has reached a conclusion.

The work of determining trigonometrically light-houses and beacons along the coasts of Maine and Massachusetts erected or rebuilt since the original triangulation was made, and elsewhere, was taken up and a junction was made between the secondary coast triangulation near Beaufort, South Carolina, and the oblique arc near the northeastern corner of Georgia.

Revisionary hydrographic surveys were made in Nantucket Sound, in New York Bay and in the Chesapeake Bay and its tributaries, as well as on the Gulf coast, and new hydrographic developments were made on the coasts of Porto Rico.

PORTO RICO

In the survey of that island great progress has been made. The entire shoreline of Porto Rico, Vieques, and Culebra Islands has been mapped. A triangulation extending from Mona Island on the west to St Thomas on the east has been made. It encircles the island of Porto Rico and traverses it in the direction from San Juan to Ponce. Surveys of all the ports have been made and are either published or in process of publication. A corrected general chart of Porto Rico and adjacent waters embodying all the work done has been engraved on copper and is in the printer's hands, and a series of 4 charts on a scale of 1 : 100,000 is rapidly being prepared and two of these will soon be issued. Tidal and magnetic observations have been made at numerous points. The harbor charts which have been published or which are about to appear are those of San Juan, Fajardo, Culebra, Port Mulas, Bahia Honda, Ponce, Guyanilla, Guanica, and Mayaguez.

The hydrography of by far the greater part of the south coast has been finished, and great progress has been made on the west coast, but more especially on the east coast, which is the scene of the coming naval maneuvers. There an area of no less than 400 square miles has to be sounded out with minute accuracy, owing to the importance of the locality and the irregularities of the

bottom which accompany coral formations.

ALASKA

In Alaska, Cross Sound and Icy Straits have been surveyed and much work has been accomplished in Prince William Sound, which promises to become one of the most important regions commercially in Alaska. During the last season two survey vessels were at work in that Sound. A chart of Fox Island Passes and the dangerous region of the Sannak Islands has been published. One of the surveying vessels was employed in a chronometric longitude expedition to determine respectively the geographical positions of the eastern end of St Lawrence and the western end of Nunivak Islands, and a successful termination of the expedition has been announced.

IN THE PHILIPPINES

In the Philippines most gratifying progress has been made under the direction of Mr. George R. Putnam, a gifted and energetic officer of the Survey. An office was established at Manila, and it was organized to publish the preliminary results of the work accomplished with the least possible delay.

The sub-office at Manila has published over thirty charts, many of them original surveys. It has availed itself of the facilities afforded by the cable and telegraph lines recently established and has determined the telegraphic longitude of the principal ports of the archipelago. Tidal and magnetic observations have been made and sailing directions have been printed in pamphlet form in addition to the continued issue of Notices to Mariners which were given to the public with great expedition. A small ship called the *Research* was provided by the island authorities for the use of the survey, and a larger vessel has been actively engaged there for over a year.

JADE

By S. E. Easter

JADE, which has been found in every part of the world—China, Burma, New Zealand, Alaska, Mexico, and central Europe—is the best illustration of the universal passion of all primitive peoples for the possession of green stones. From prehistoric times to the last looting of Peking, jade has been a treasure most highly prized and eagerly sought. The most famous quarries of jade are those of the Karakash Valley, in Chinese Turkestan, from which the chief supplies of the Chinese Emperors were drawn.

Much confusion has arisen from the too general application of the term "jade" to kindred mineral substances, such as saussurite, chloromelanite, pectolite, serpentine, and fibrolite or sillimanite, and Dr Fischer has collected one hundred and fifty specimens of stones carelessly called jade. Properly speaking, jade only includes *nephrite*, a variety of amphibole, and *jadeite*, one of the pyroxene group.

Nephrite, which occurs more frequently than jadeite, and the best-known quarries of which are those of Chinese Turkestan, is, according to Dana, a tough, compact, fine-grained tremolite (or, in green specimens, actinolite), breaking with a splintery fracture and glistening luster. Its specific gravity is

2.96–3.1, and it varies in color from wax white, cream white, green white, greenish gray to pale green, passing through many gradations to the very darkest green, in which variety iron protoxide is present up to 6 or 7 per cent.

Jadeite, which occurs in the Mogoung District, in Upper Burma, and in the Province of Yun-nan, China, is essentially a metasilicate of sodium and aluminium and has a specific gravity of 3.33–3.35 and a hardness of 6.5–7. Its luster is subvitreous and its fracture splintery, while in color it varies even more than nephrite. It may be gray green, bluish green, bluish gray, clear gray, orange yellow, smoky green, passing to black (the latter resembling the nephrite of Siberia), smoky white, white with green tints and splotches, and apple green; also, but rarely, violet and mauve. All the green tints are, as a rule, much brighter than those of nephrite. The so-called "jewel jade," the Chinese *fei tsin* (kingfisher—feather color), is jadeite of an intense emerald hue. It is seldom found, and then generally in thin veins and often much flawed. It is said to be harder than ordinary jadeite. Much of it is taken to Canton, where it is converted into jewelry. In earlier times, this apple-green jade was not so highly valued as the darker olive shades, while the Emperors of the Ming Dynasty (1368–1664) esteemed pale bluish-green specimens above all others, and white next held imperial and Manchu fancy.

Both nephrite and jadeite have a waxy, oily surface and take a high polish in the hands of oriental artisans. When modern European machinery is used, a dazzling, mirror-like surface is obtained. Though generally opaque or translucent, there is a very rare variety known as "camphor jade," from its appearance, which resembles a much-flawed crystal, and is actually transparent in spots. Under the name of "oceanic jade," Damour describes a variety found in New Caledonia and the Marquesas Islands, "which possesses a somewhat silky luster, due to exceedingly delicate fibers which traverse the mass, and which has a specific gravity of 3.18."

Collectors of jade objects of the present day have given much attention to distinguishing, by means of the scientific tests of specific gravity, analysis, and microscopical examination, between true nephrite and jadeite and the numerous substances which, so far as outward appearances go, resemble them. The common and predominant characteristic of all the stones to which the name jade from time to time has been applied is their tenacity. Their compactness of texture and extreme toughness recommended them in prehistoric times as the best materials from which to manufacture tools with sharp cutting edges. Since jade in its natural state was for a long time vainly sought in Europe, many scholars concluded that the jade implements found in the Swiss lake dwellings, or the materials from which they were made, must have been brought from the quarries in Turkestan. If, it was argued, jade were a product of the countries in which these implements were found, how did it happen that it was never discovered by the races who succeeded the men of the Palæolithic Age? There is no evidence of jade having been employed by the Greeks and Romans for any purpose, nor was it known in mediæval times. As it was only through its introduction from Mexico by the Spaniards that modern Europe was made aware of its existence, it was questioned whether Aryan wanderers could have brought these jade objects with them from the Kuenlun Mountains. Professor Max Muller asks: If the Aryan settlers could carry with them so ponderous a tool as their language, what is surprising in their having carried along, preserved from generation to generation, such

handy and valuable instruments as these jade celts?

Lengthy discussions were waged as to how this "venerable witness to the brotherhood and intercommunication of the human race" first found its way into Europe, and the famous "nephrite question" long divided European scientists. By many it was insisted that jade implements were brought by migratory tribes from the cradle of their race in Asia, the perfect fitness of the material to the uses to which it was put, as well as the inherent preciousness of the stone, rendering such instruments of sufficient value to be prized and preserved throughout the many generations who lived and died ere the long march ended.

Other investigators held that jade celts, or the material for making them, were objects of actual commerce between Europe and the Orient; but Sir John Lubbock considers it more probable that they were passed from hand to hand and tribe to tribe by a system of primeval barter. As a parallel case, he cites the tumuli of the Mississippi Valley, where the same mound often contains copper from Lake Superior, mica from the Alleghanies, shells from the Gulf, and obsidian from Mexico.

The discovery of jade implements in Swiss lake villages followed long after their occurrence in a stone tomb in Normandy, in caves in Brittany and at Mentone, in the tumulus of Mont St Michel, and in southern Italy. Schliemann found thirteen jade celts in the ruins of ancient Troy. One of these celts and one other found in Crete are the only white celts so far found in Europe. The British Museum possesses one Babylonian cylinder of jade, and also a gold necklace with a small jade celt as a pendant. Both faces of the pendant are occupied by Gnostic formulæ engraved in Greek characters. The formulæ are cut in the outline of a wreath of fourteen leaves, the ends being tied together with four ribbons, on which are engraved different combinations of the Greek vowels, while each leaf is emblazoned with a holy name. The other face of the celt is covered with an inscription in eight lines. This celt, which is supposed to have come from Alexandria and, judging from the character of the lettering, to date from the third or fourth century, is the only known specimen of jade bearing indisputable marks of either Greek or Roman workmanship. It was a celt originally, however, and not an object of Greek manufacture.

There is no ancient name for jade in any European language. Its name is derived from the Spanish *piedra de hijada*, "stone of the loins," a reference, doubtless, to the Aztec superstition that jade was the surest protection against diseases of the loins.

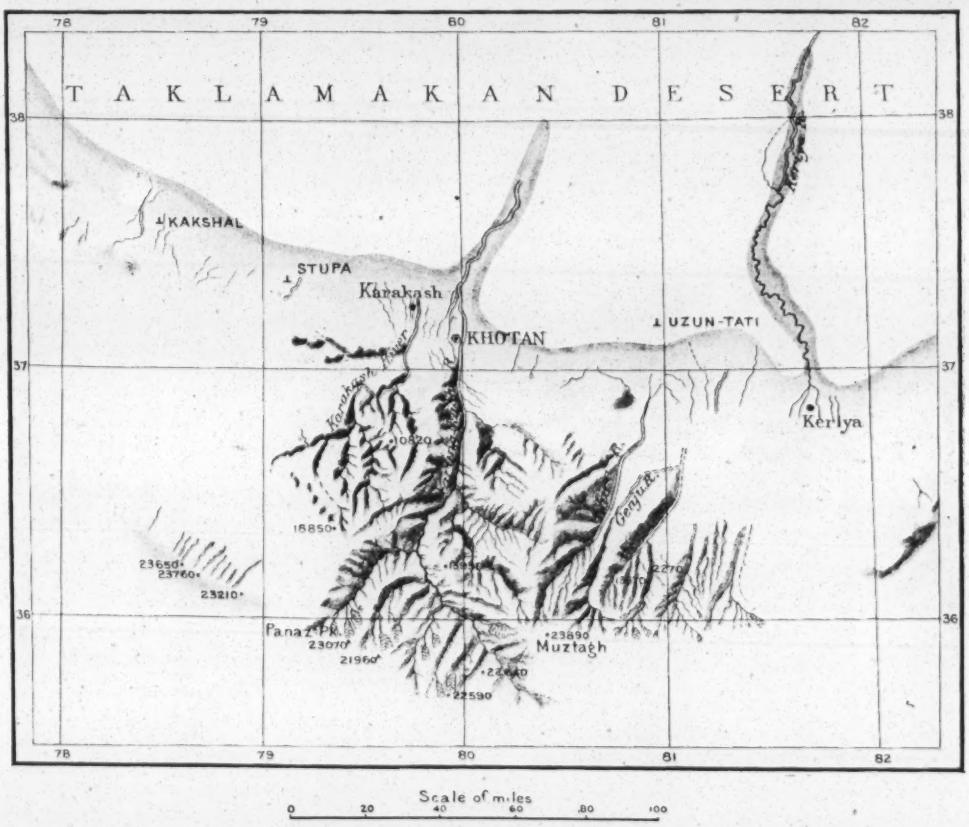
Jade has been known to the Chinese since the earliest times as *Yu*, or "the gem." They class the different kinds of jade under seventy-seven heads, but for the mineral itself they have no distinct, generic name. It is the typical precious stone, the gem. Throughout every age they have attached an extraordinary value to it, comparing it to "the subtle matter of the rainbow concreted and fixed under the form of a stone," and regarding it as the most beautiful substance in which human thought can embody itself. Confucius explained this by telling one of his disciples that "in the eyes of wise men its polish and its brilliancy represent virtue and humanity, and its perfect compactness and extreme hardness the safeguards of intelligence; the angles of jade, which, seeming sharp yet do not cut, represent justice; the little buttons which hang from the hat or belt, as if about to fall, represent ceremony and politeness; the sound—pure, sustained, and prolonged—which it gives forth when struck and which ceases suddenly, represents music; the impossibility for

the bad shades to hide the beautiful, or the beautiful the bad, represents loyalty; the defects under the surface, yet apparent, represent sincerity; its luster, like that of the rainbow, represents the firmament; its wonderful material, extracted from the mountains and waters, represents the earth; cut into Kueï or Chu, without other embellishment, it symbolizes virtue, and the price at which all the world values it symbolizes truth."

This passion for jade, the classic or poetic color of which is white in China, causes Chinese writers to use the word figuratively whenever they wish to indicate anything very white, very pure, or very perfect. In the language of compliment no word of praise rises above that which likens beauty to jade, and the loftiest thought, as well as the highest morality, are compared to it. References are constantly made to it in poetry, as in the Emperor Kien-lung's verse—

"While the waning moon in the westward hangs like an orb of jade."

The most ancient of the Chinese classical books, the Shu King, or Book of Historical Documents, relating to the period B. C. 2357 to 627, mentions jade

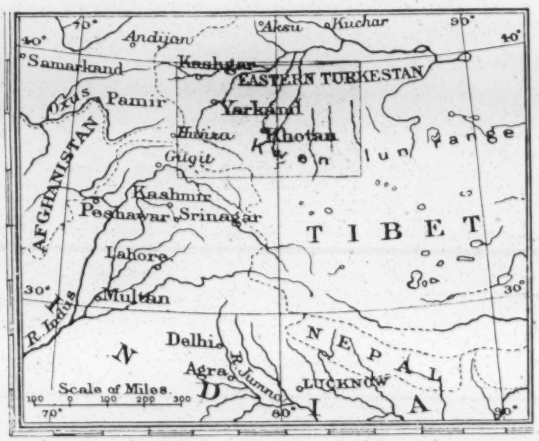


Preliminary Survey Map of the Khotan Valley, Site of the Chinese Jade Mines. By Dr M. A. Stein, H. M. Indian Educational Service. Printed by Courtesy of Dr. M. A. Stein and Royal Geographical Society, London.

as one of the articles of tribute of the Province of Yung Kan, which embraced nearly all the present provinces of Shenhsi and Kan-su, and extended indefinitely northward to the desert.

It is an old saying with the Chinese that "jade stone comes from the Kuenlun Mountains, in the Province of Khotan," and in the history of the T'ang Dynasty (618–906) reference is made to a yearly tribute of 500 pieces of jade sent to the Emperor by the king of that region. Travelers describe the jade quarries as situated on the south face of the Kuenlun Mountains, in the main valley of the upper part of the Karakash River, south of the city of Khotan. They extend for a mile or more in length, and in this space are the entrances of at least a hundred tunnels which riddle the mountain side in every direction, and in some cases pierce through the mountain to the further side. The mineral is found in veins of varying thickness, in width from a few inches to ten feet, but so seamed and cracked as to make it difficult to find a piece even a few inches thick which is not badly flawed. Until the middle of the last century China maintained her authority over eastern Turkestan, including Yarkand and Khotan. The people, however, were Mohammedan, and in 1852 they succeeded in throwing off the Chinese yoke by a general uprising, in which all the officials were massacred. The jade workers, who were Chinese, probably fled from the quarries at this time and shared the fate of their countrymen. Their clothing, implements, and remnants of food were left in their haste, and were seen by Cayley when he visited the quarries in 1871. Work has since been resumed, but too many of the expert carvers and workmen were killed during the rebellion for the industry to recover its former preëminence.

Loose boulders of jade are often carried down by the force of the current in the Karakash and tributary streams, and they eventually become embedded in the soft clay banks or are deposited in the bed of the river. This "water jade" is highly valued by the Chinese carvers, as its rough journey is a severe test of hidden flaws, which might otherwise cause the block to fall to pieces after much labor has already been expended on it. It is obtained either by digging the boulders out of the banks or by divers specially trained for the work. An inspector always accompanies these diving parties, whose duty it is to mark each lump as it is brought up, estimate its value, and finally ship the jade to Peking. Such pieces bring three times the price of quarried specimens of similar size and color.



Eastern Turkestan. After the Map of Dr M. A. Stein, Indian Educational Department. Reprinted by courtesy of the Royal Geographical Society and Dr M. A. Stein.

In many rivers of eastern Turkestan jade pebbles are found in abundance. The word "kash," so often found in the names of rivers and places in this region, means "jade" in Toorkee, and there seems little reason to doubt the

existence of the mineral along the whole of the Kuenlun range. Much difficulty is experienced in tracing the veins, owing to the shifting sands.

A huge dike of nephrite embedded in the rocky banks of the Raskemdaria, on the eastern slope of the Pamir, was another source from which the Chinese formerly drew large supplies of jade. They extracted it by lighting large fires on the rock and then throwing water on it when it became thoroughly heated. The rock was abandoned some years ago in consequence, it is said, of the illness of a member of the Imperial family, who was taken sick after having slept on a bed made of Raskem nephrite. A large block of the stone which was then on its way to Peking was put in chains and thrown on the roadside at Kutcha, where it still remains. It was from this ridge on the Raskemdaria that the monolithic tombstone of Tamerlane was cut. This famous tomb of darkest-green jade stands in a half-ruined mosque at Samarkand, and is 7 feet 8 inches long, 17 inches wide, 14 inches high, and weighs about 1,800 pounds. It is broken through the middle, but is well polished, completely covered with inscriptions, and rests on a white marble base. In addition to this and the Karakash quarries, the Chinese also obtained jade from deposits in Yun-nan, Kan-su, Shen-se and Quang-se, and other provinces of China. Many mines throughout China are owned by private individuals, who keep the existence of their quarries secret, fearing the extortions of the government.

Jade has also been found in fair abundance on the shores of Lake Baikal, Siberia. The South Kensington Museum possesses a large, water-worn, well polished boulder from this region, weighing more than half a ton.

The Chinese use the utmost care in carving jade. The workman having determined from the natural form of the block, and its visible and probable flaws, into what object he will carve it, fixes it on a lathe and gives it the general outline. The interior is then hollowed out by first drilling, with diamond-pointed needles, innumerable little holes all over the surface which is to be broken away. When this is completely honeycombed the partitions are broken down by being sharply tapped with a hammer. Too hard a tap might develop some hidden flaw and shatter the half-finished object. The piece is finally polished with corundum. The harder the stone and the more difficult the cutting, the more brilliant the polish it is capable of acquiring. It is claimed the jade is softer when freshly taken from the quarries. So great is the difficulty of carving jade that an elaborate piece may represent a lifetime's labor. In Kienlung's ateliers, in the Summer Palace at Peking, the workmen succeeded each other without interruption night and day. Even then many years were occupied in completing a single piece.

Jade is becoming more and more appreciated as a material for interior decorative construction by the splendor-loving Russians. By cutting the stone into sections an eighth of an inch thick it is employed for the panelling of walls and chimney pieces, and even window panes—the translucent pieces showing the most exquisite shading and clouding.

European and American collections owe many of their finest specimens to the plunder taken from the Summer Palace in Peking in 1860, when the enormous collections of the Emperor of China were at the mercy of the French and British forces, who were ordered to burn and destroy all the buildings. The palace ateliers, having long been declining in activity and in the quality of their productions, had in a measure ceased jade-cutting a few years previous to the sacking of the Summer Palace, because the tribute of jade from the

Turkestan mines did not come to Peking during the Mohammedan rebellion. The imperial ateliers have not been maintained since 1860, but the treasures of jade again gathered at the Summer Palace were promptly sold or sent home by the Russian, English, and Italian troops, who in turn occupied that demesne in 1900 and 1901. The Winter Palace, the temples within the imperial inclosure, and the princes' palaces, in Peking, yielded up an enormous treasure of jade in 1900, nearly all of which has found its way since to Europe and America.

The uses to which jade has been put by the Chinese are almost endless. Discs of the stone, which when struck give forth a clear, resonant note, are used as temple gongs and musical instruments. Ritual vessels are made of it, and it is to this fact that Paléologue attributes the peculiar veneration in which the Chinese hold the stone. Tablets inscribed with sacred writings, bowls and vases of fantastic form and intricate design, statuettes of Buddha, perfect alike in conception and execution, candelabra, boxes, pencil-holders and all the paraphernalia of the writing-table, as well as buckles, bracelets, rings, hooks, buttons, and other ornaments, are all wrought with untiring patience and matchless skill from the same intractable material. Carved works of jade seldom bear any marks such as are seen on porcelain, whereby a date is indicated. Sometimes objects are inscribed with a poem or quotation, which may afford some clue to the date. All such marks are comparatively rare, and the style of ornamentation is generally the only guide. Extreme simplicity of design and purity of form characterize the earliest examples, while those of later periods are often marvels of fantastic and ornate decoration.

The Chinese rarely embellish their jade carvings with other substances, possibly owing to their excessive admiration for the stone and the symbolism with which they surrounded it. The Hindus saw in jade, however, only a green background for encrustations of many-tinted gems and gold. It afforded them opportunities for the display of their cunning, as jewelers, to combine the softly shaded tones of the jade with rubies, diamonds, and other stones, as well as scarcely less brilliant enamel. As a material for artistic workmanship, jade was only known in India from the time of the Moguls, who encouraged its employment unstintingly. The arts of carving in frost-like open-work and of inlaying, which found such perfect expression in the Taj Mahal, were lavished in miniature on jade cups, beetle-boxes, sword and dagger hilts, and turban ornaments, for which there was an unfailing demand at court. Work of a less elaborate character was sometimes executed, and a large jadeite tortoise found in a water-tank at Allahabad is now in the South Kensington Museum. It is bluish gray in color, highly polished, and nearly 20 inches long. Although mines of jadeite exist in Burma, the Hindus probably drew the greater part of their supply from central Asia, and much of that now sold by them as Yarkand jade is only chloromelanite and serpentine.

When Captain Cook visited the middle island of New Zealand the natives told him it was called Te Wahi Pounanu, or "the place of the green stone," because all of their much-valued green stones came from that island. In old atlases the island is still called Tavai Poenammo, a corruption of the native name. The natives, like the primitive inhabitants of Europe, fashioned weapons called "Meri" from the coarser varieties. Like the celts of the Lake-dwellers, too, many of their implements show traces of having been formed by sawing. There is a large block of New Zealand jade in the British Museum re-

taining the cutter's grooves, and the New York Museum of Natural History contains a similar piece from a primitive Alaskan workshop. Of the finer and more translucent specimens of jade the New Zealanders carved their "tiki." These objects were worn about the neck, and are said by some to have been title deeds of land, as well as venerated charms and symbols of ancestor worship. There is a grotesque figure of New Zealand jade in the British Museum which was evidently carved with much care. The eyes are inlaid in mother-of-pearl.

Jade implements, chiefly celts, have been found along the entire coast of British Columbia and Alaska from the Straits of Fuca to the Arctic Sea, and arrow-heads have been brought from the Arctic coast of both Alaska and Siberia. Such stone implements were highly valued by the Indians, who in some cases still preserve them, although they no longer use them. The majority of jade celts which owe their origin to this region have been discovered in Indian graves, in shell heaps, and on the sites of former villages. Whether the jade thus employed was brought from Asia or found on the spot was for a long time an open question. The discovery of the mineral *in situ* in the vicinity of the Fraser River and in rolled pieces on the Lewes branch of the Yukon has placed its origin beyond dispute.

Jade was known to the Aztecs as the "divine stone," and was valued next to the emerald, with which it was often confused by the early Spaniards. As a religious symbol, it was placed on the altars. It was carved by the Aztecs in the form of parrots' heads, fish, etc., and worn as a charm against kidney troubles and epilepsy. This superstitious esteem for the medicinal qualities of the stone was carried to Europe by the Spaniards, and at one time there existed jade merchants in Paris who sold medals of jade as a remedy for these diseases. The Aztecs also carved masks from jade, which were used in the temples to cover the face of the most illustrious of the gods when the King fell ill. They did not remove them until the recovery or death of the patient. At other times these masks served as a decoration of the temple walls.

In Central and South America similar uses for jade and jade-like stones obtained, and, as in every other quarter of the globe where the stone was known and used, it was held in an esteem amounting, in many cases, to actual reverence.

Collections of jade are found in nearly all the great museums of Europe, perhaps the most notable being that of the South Kensington Museum, which possesses superb examples of the jewel-inlaid Indian jade. The specimens in the British Museum are valuable chiefly from a mineralogical and archæological point of view. A number of choice pieces are owned by the Musée Ethnographique in the Louvre and the Musée Guimet, in Paris. The Musée Chinois at Fontainebleau owes its fine collection of jade to the gifts of French officers to the Empress Eugenie after their return from the campaign in China in 1860. Jade objects which have been presented to the imperial family of Russia are exhibited in the Peter the Great Gallery at St Petersburg. Among the treasures of the Sultan in the old Seraglio at Constantinople are many sword hilts and other small objects of jade.

Although these museums contain many individually fine specimens of jade, no one of them possesses a truly complete collection. American collectors of Orientals have long shown their appreciation of the beauty of jade objects, and the collections of Messrs Brayton Ives, Henry Walters, Thomas Waggaman, and Frederick Ames contain many unique and perfect examples of the jade carver's art. It was left for an American, Mr Heber Bishop, of New

York,* to make the first comprehensive and general collection of jade. The Bishop collection recently presented to the Metropolitan Museum of Art in that city embraces every variety of the stone, and includes examples by prehistoric and primitive jade workers as well as the greatest gem-cutters of the Mogul and Chinese courts. Years of work have been devoted to the descriptive catalogue of this collection, which will be the authoritative work on the subject.

*On December 10, 1902, since this article was written, Mr. Bishop died at his residence in New York City. By the terms of his will ample provision has been made for the preservation of his famous collection in a special room of the Metropolitan Museum of Art.

SOME NOTES ON VENEZUELA

VENEZUELA was the first part of the American continent sighted by Columbus. During his third voyage, in 1498, he first saw the coast from the Island of Trinidad, and thought that it was another island; but the fresh water of the Gulf of Paria, whose shores he coasted for several weeks, soon convinced him that great continental rivers were pouring into the gulf, and that the vast Asiatic continent at last stretched before him. Sickness prevented him from making extended explorations of the coast and sent him back to Hispaniola.

The following year Alonzo de Ojeda, accompanied by the celebrated Amerigo Vespucci, traced a greater extent of the Venezuelan coast. It was Ojeda who gave the country its present name—Venezuela.*

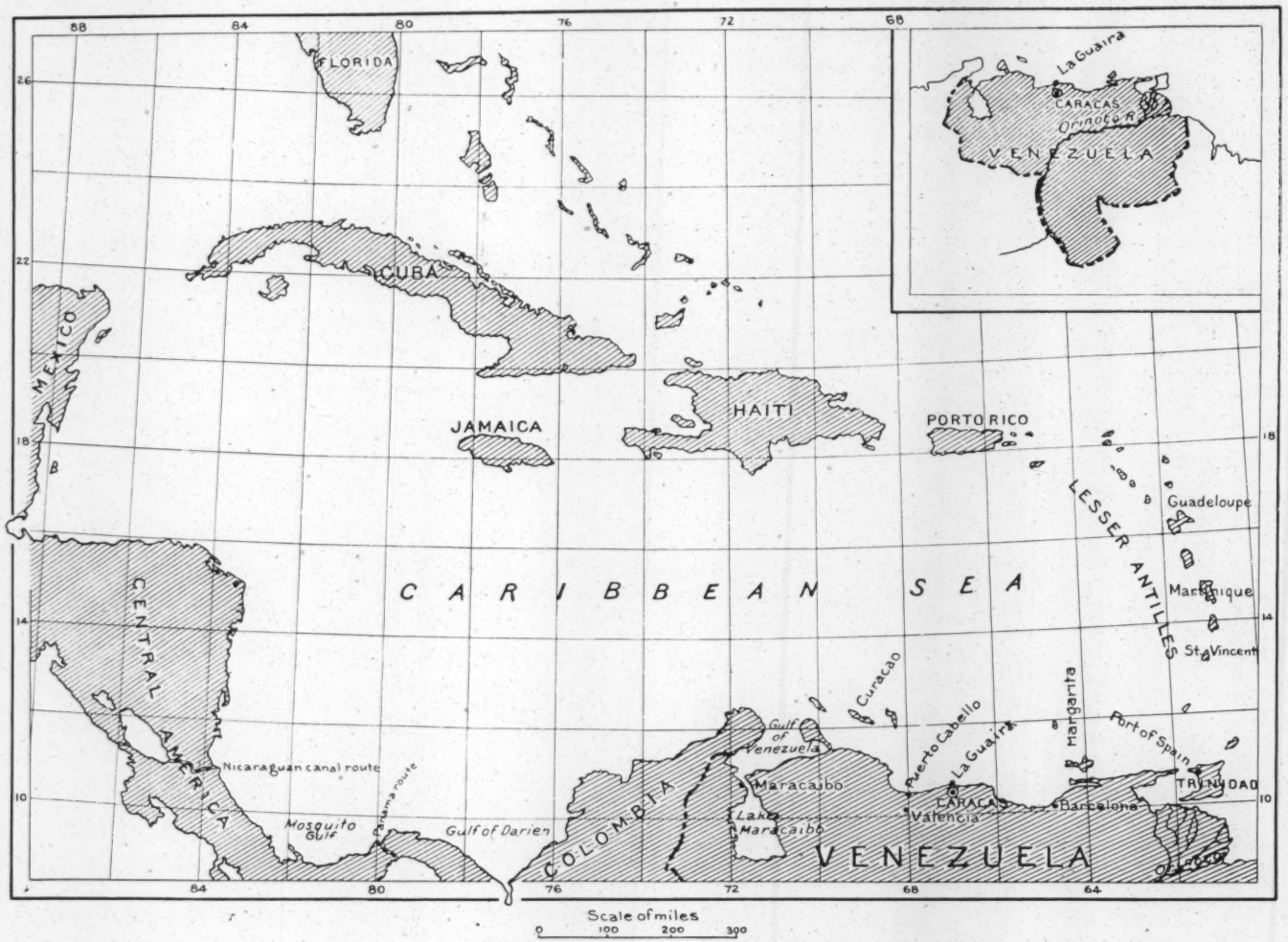
"Proceeding along the coast, he arrived at a vast, deep gulf resembling a tranquil lake, entering which he beheld on the eastern side a village, the construction of which struck him with surprise. It consisted of twenty large houses shaped like bells and built on piles driven into the bottom of the lake, which in this part was limpid and of little depth. Each house was provided with a drawbridge and with canoes, by which communication was carried on. From these resemblances to the Italian city, Ojeda gave to the bay the name of the Gulf of Venice, and it is called to the present day Venezuela, or Little Venice. The Indian name was Coquibacoa."

After a small skirmish Ojeda "sent a detachment of twenty-seven Spaniards on a visit to the interior. For nine days they were conducted from town to town and feasted and almost idolized by the Indians, who regarded them as angelic beings, performing their natural dances and games and chanting their traditional ballads for their entertainment.

"The natives of this part were distinguished for the symmetry of their forms; the females in particular appeared to the Spaniards to surpass all they had yet beheld in the New World for grace and beauty. Neither did the men display in the least degree that jealousy which prevailed in the other parts of the coast.

"By the time the Spaniards set out on their return to the ship the whole country was aroused, pouring forth its population, male and female, to do them honor. Some bore them in litters or hammocks, that they might not be fatigued with the journey, and happy was the Indian who had the honor of

*Washington Irving: "Life and Voyages of Christopher Columbus and the Voyages and Discoveries of the Companions of Columbus." Five vols. Vol. IV, p. 166. G. P. Putnam's Sons, New York.



Outline Map Showing Geographical Relation of Venezuela to the Isthmian Canal Routes, to the West Indies and Florida

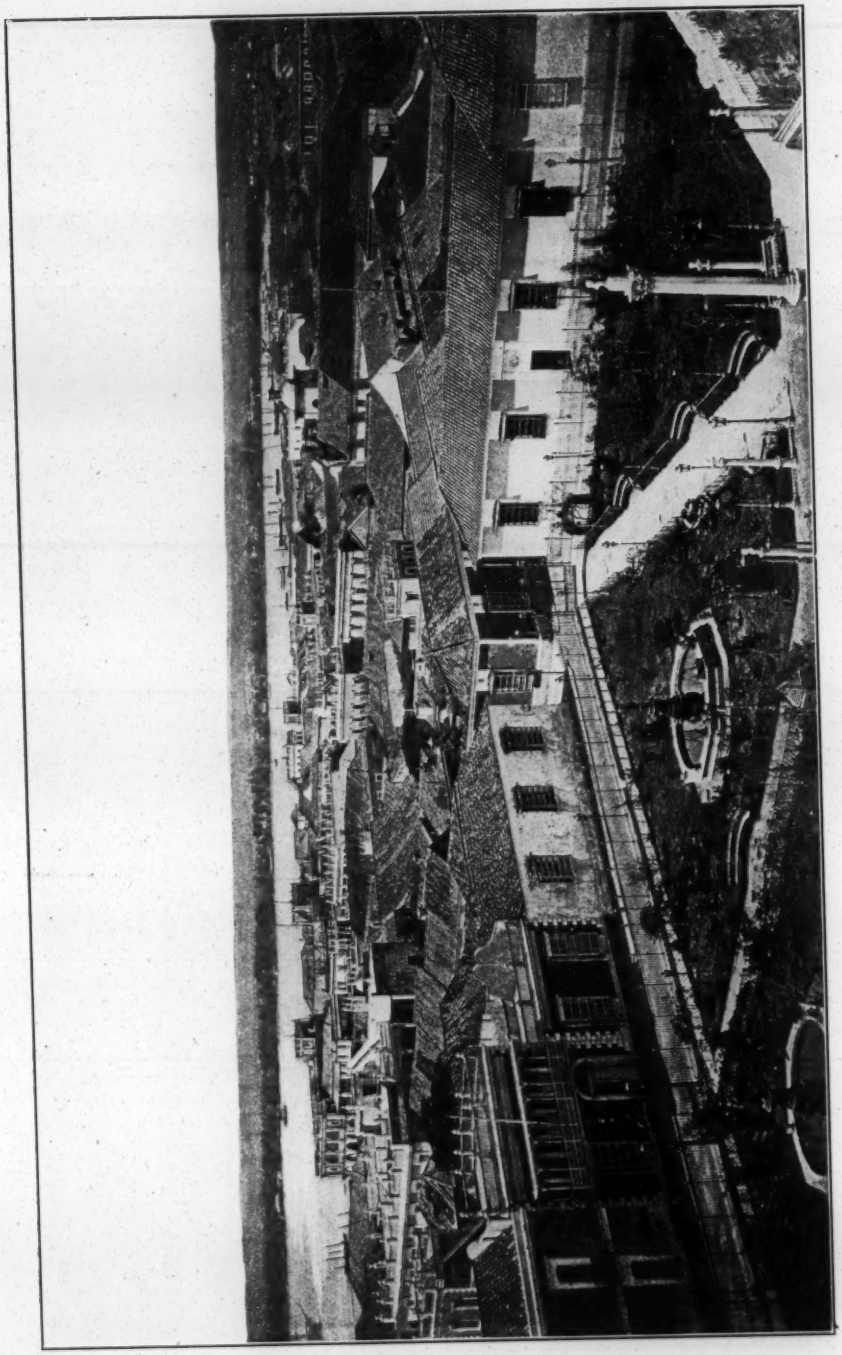
bearing a Spaniard on his shoulders across a river. Others loaded themselves with the presents that had been bestowed on their guests, consisting of rich plumes, weapons of various kinds, and tropical birds and animals. In this way they returned in triumphant procession to the ships, the woods and shores resounding with their songs and shouts."

Venezuela has a larger area than the combined areas of the great States of Texas, Kentucky, Tennessee, Alabama, Mississippi, Louisiana, Oklahoma, and Arkansas. In figures its area amounts to about 590,000 square miles. The population is 500,000 less than that of Massachusetts. In 1891 it was 2,323,527. The capital, Caracas, has 75,000 inhabitants, Maracaibo 35,000, La Guaira 15,000, and Barcelona about 13,000. About one person out of every one hundred is pure white, while the others are descendants of black slaves, mulattoes, etc., and Indians.

The republic has three zones—hot, temperate, and cool—according to the elevation of the land. The lowlands in the northwest are very torrid. Here great quantities of coffee and cacao are raised, which form the largest agricultural exports of the country. The cacao is sent mainly to France, Germany, and Spain, and the coffee, which averages a yearly crop of 55,000 tons, to the United States. South and east of the lowlands, extending eastward to Caracas, are high mountains. where, the climate being temperate, most of the people live. Caracas, the capital, is 3,000 feet above the sea. Trade winds prevent the extremes of heat suffered in the corresponding latitude of northern Africa. The mean temperature at Caracas is only 71°.2 Fahr. On the coast it averages from ten to twelve degrees higher.

A View of Caracas

Vast llanos, or great plains, stretch south of the mountains, making splendid runs for cattle. South again of the



The Port of Maracaibo

The University—Caracas

plains, beyond the Orinoco, are vast forests, from which the natives get rubber, tropical woods, and vanilla. There are also gold diggings south of the Orinoco, which yielded over $600,000 for export in 1900.

Almost nothing is manufactured beyond the cheapest grades of goods. The larger share of the imports come from the United States—$3,271,000 worth in 1901, consisting of flour, lard, hardware, and cotton goods, on all of which a heavy duty was levied. England and Germany send the next largest amount of goods. Venezuela sent in return to the United States in 1901 $6,645,000 worth of coffee, cacao, and skins, all entering free of duty. The annual revenue of Venezuela is about $7,500,000, obtained mainly from customs duties.

AN INTRODUCTION TO PHYSICAL GEOGRAPHY*

DURING the last few years the general public has felt a deeper interest in the facts of the earth—in what the earth is and what it hides—than it has probably ever experienced before. The fearful upheavals in Martinique, St Vincent, and Guatemala, attended by a general natural unrest throughout the globe, have aroused a wide spread desire to understand what

**An Introduction to Physical Geography.* By Grove Karl Gilbert and Albert Perry Brigham. With 263 illustrations. Pp. 380. 5½ x 8 inches. New York : D. Appleton & Co. 1902.

is known—little though that knowledge is—of the mysterious forces writhing under the earth's crust. The coal strike in the United States has aroused an interest of a different character—an inquiry as to what coal is and how it happens to be stored in certain localities and not in others as well. The prolonged and successful agitation for irrigation in the West and for forest reservations has also had its share in arousing the public to other questions relating to physical geography, as, for instance, weathering and soils, forests and rainfall.

Therefore a book about Physical Geography, written in a simple and interesting manner and not loaded down with innumerable technical terms which are of value to the specialist but not to the general public, is especially welcome. Such a volume has recently been written by Messrs G. K. Gilbert and A. P. Brigham, and published by Messrs D. Appleton & Co., of New York. The authors modestly call the work "An Introduction to Physical Geography." It is planned especially as a text-book for schools and has already gained much success. A second edi-

From Gilbert's and Brigham's "Introduction to Physical Geography." D. Appleton & Co.

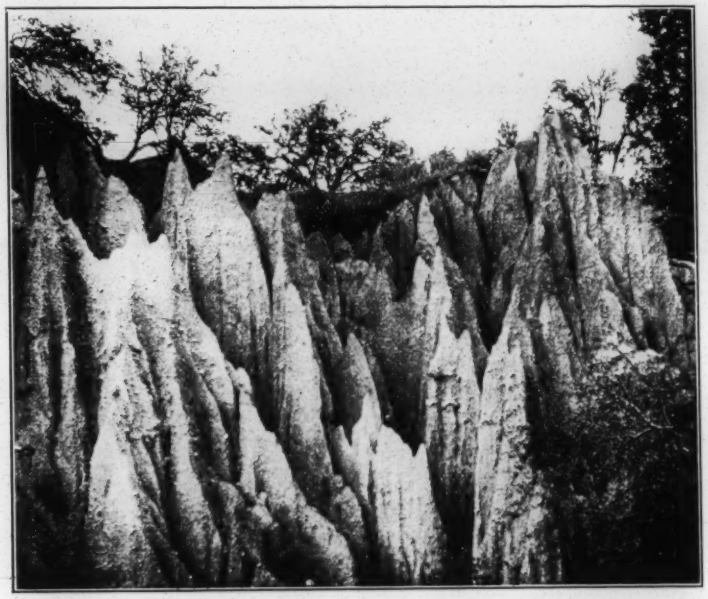
Figure No. 1—Watkins Glen ; a Gorge Carved from Beds of Shale

tion was called for within a few weeks of the publication of the first. But the volume will gain a wider field than the ordinary text-book, for it will appeal to that growing class of amateurs who have been seeking a plain but fascinating description of the present and past facts of the earth.

The treatment, so far as possible, is concrete. Wherever practicable, each subject is opened with a type case, illustrated by a picture of some graphic example. About one-half of the book is given to the lands. The relation of organisms to the earth is introduced wherever appropriate.

Two hundred and sixty-three illustrations, all very well chosen and admirably engraved, accompany the text. By permission of the publishers, six typical illustrations are reproduced in this Magazine.

Figure No. 1 is a picture of the noted Watkins Glen, which during the process of time a small stream has carved in the soft rock of the mountain. In some places the stream has cut to a depth of 200 feet; sometimes the gorge is scarcely more than 10 feet wide, and at others broadens into large amphitheaters, in which one's voice echoes and reëchoes with weird effects. The chasm is at the head of Seneca Lake, New York, from which, winding and curving abruptly, it penetrates Glen Mountain for a distance of three miles.

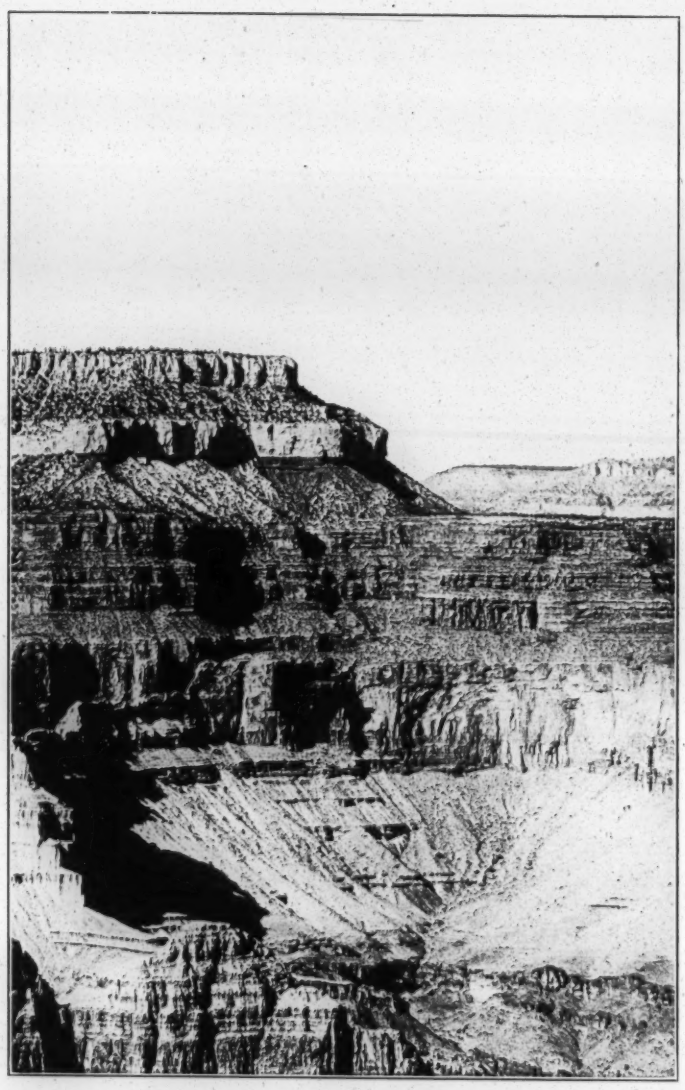


From Gilbert's and Brigham's "Introduction to Physical Geography." D. Appleton & Co.

Figure No. 2.—A Pebbly Rock Carved by Rain; Russian River, California

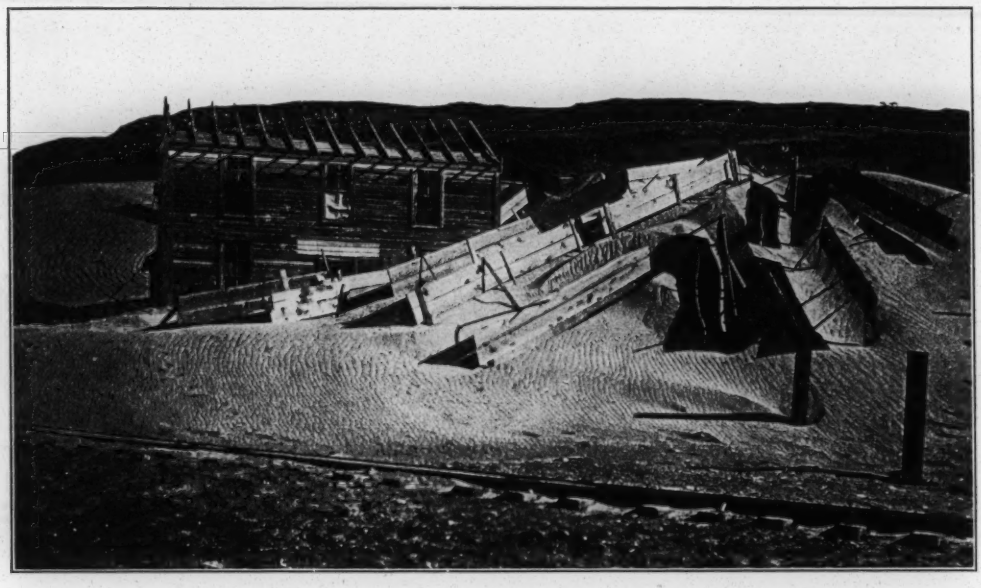
Figure No. 2 is a graphic example of the effect of rain wash. Rain has soaked and softened the rock; then little rills have started, and have gradually worn deep channels of their own, making the high pinnacles.

Figure No. 3 illustrates the different kinds of rock, some hard and some



From Gilbert's and Brigham's "Introduction to Physical Geography." D. Appleton & Co.

Figure 3.—Rock Edges (limestone and sandstone) and Waste Slopes (concealing shale). Grand Canyon of the Colorado River, Arizona



From Gilbert's and Brigham's "Introduction to Physical Geography." D. Appleton & Co.

Figure 4.—The Last House in Riggs, Oregon, a Village Overwhelmed by Dunes. Attempts to hold the sand back by fences were unsuccessful

soft, of which almost every mountain is made.

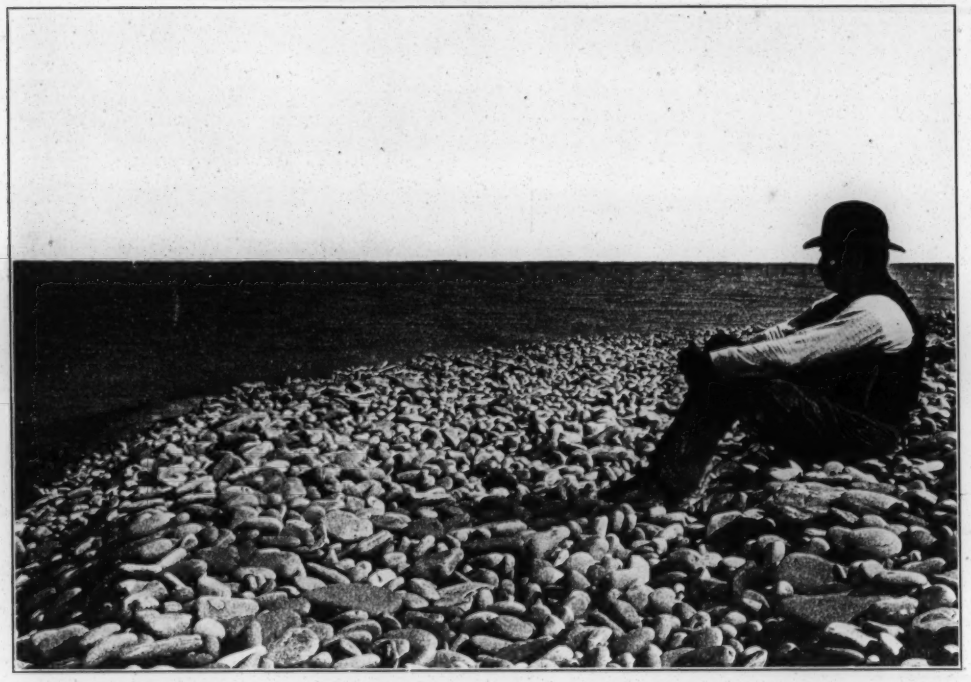
Figure No. 4, an example of wind work, shows a substantial house in Oregon nearly buried by drifting sand. In Chinese Turkestan, Sven Hedin has recently discovered the ruins of great temples where flourished 2,000 years ago cities with a high degree of culture and civilization. Here in the heart of Asia populous cities and lakes have been buried beneath drifting dunes.

Figure No. 5 shows how some of the people of Cape Cod, Massachusetts, check the advance of the sand by planting grass, which binds the sand and keeps the wind from lifting it. Common oleanders are used for this purpose in Bermuda. Where no effort has been made to check its advance, a dune has been known to migrate as much as 70 feet in one year.

The authors of "An Introduction to Physical Geography" are very well

From Gilbert's and Brigham's "Introduction to Physical Geography." D. Appleton & Co.

Figure No. 5.—Planting Grass to Stop the Drifting of Sand, near Provincetown, Cape Cod, Mass.



From Gilbert's and Brigham's "Introduction to Physical Geography." D. Appleton & Co.

A Traveling Beach on the Shore of Lake Ontario. The stones originally angular become rounded as the waves roll them along

known in the scientific world. Mr Gilbert, geologist of the U. S. Geological Survey, is a past president of the American Association for the Advancement of Science. He was the recipient of the Wollaston Prize of the Geological Society of England in 1899, and is the author of "Geology of Henry Mountains," "Lake Bonneville," etc. Mr Brigham is head of the department of geology in Colgate University and the author of a well-known text-book of geology.

DR SVEN HEDIN

THE distinguished Swedish explorer, Dr Sven Hedin, who ended his last famous expedition to Central Asia in December, 1901,* is at present receiving one continuous series of ovations throughout Europe. He has given lecturing tours in Sweden, Russia, Denmark, England and Scotland, and after New Year's commences a tour in Germany, France, Austria and Hungary, and Norway. It had been hoped that he would visit America this winter, but he writes that his

*See the *National Geographic Magazine* for March, 1902, page 96.

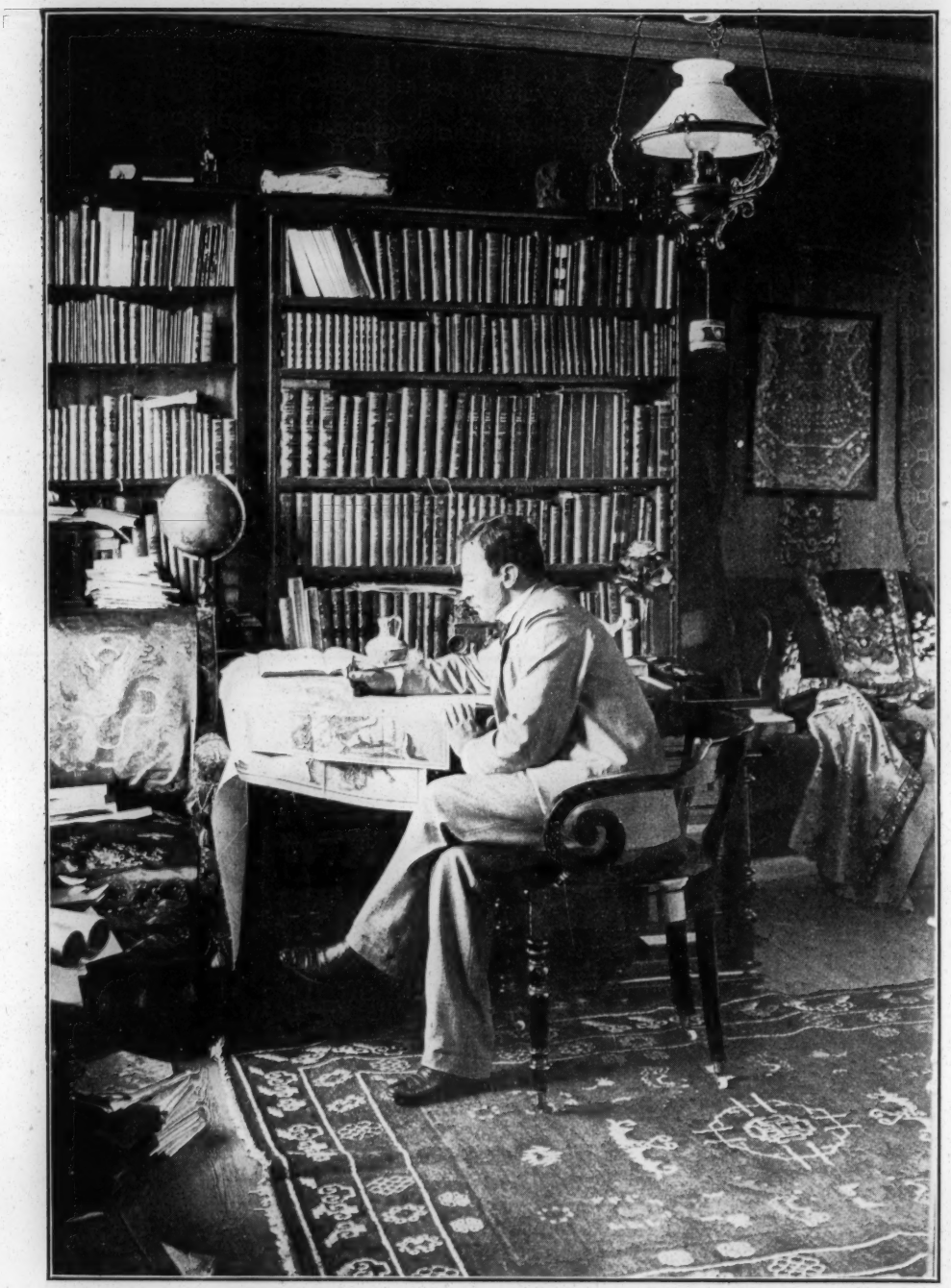
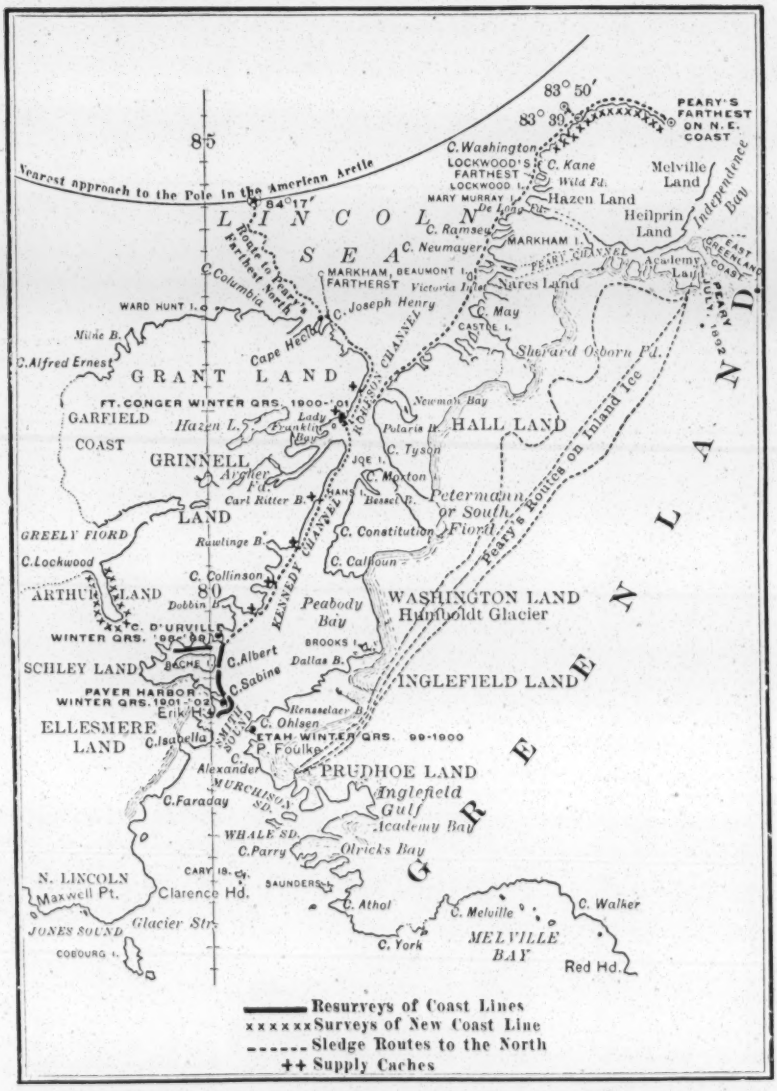


Photo by Dahllof, Stockholm

Dr Sven Hedin in His Study, Stockholm



Republished from the Bulletin of the American Geographical Society of New York

Outline Map of Peary's Sledge Routes and Surveys

engagements in Europe make a trip across the Atlantic impossible this year.

Sven Hedin was born in Stockholm, February 19, 1865. He was educated at the universities of Upsala, Berlin, and Halle, and from the last received the honorary degree of Ph. D. His first journey of exploration was in 1885-'86, from Persia to Mesopotamia; in 1891 he traveled in Turkestan; during 1892-'95 he traveled right across Asia from Russia to Peking, penetrating Tibet and studying the Lob-nor district. The results he published in a splendid volume, "Through Asia" (Harper and Bros.). His latest and most important expedition was begun in 1899, and has yielded valuable information about the geography of Chinese Turkestan and Tibet, and of the cities which flourished in the Lob-nor region 2000 years ago and have long since been buried beneath the desert sands.

PEARY ON THE NORTH POLE

IN a lecture before the National Geographic Society November 29, 1902, Commander Robert E. Peary stated very emphatically that he believed the North Pole could be reached by making Cape Hekla, in northern Grinnell Land, the starting point for the sledging trip north. The average distance of Peary's four Arctic sledge journeys over the ice is slightly greater than the distance from Hekla to the Pole and back. If the next arctic explorer will make Cape Hekla his base, will pass the winter there, and starting from that point in spring fight his way as many miles northward over the ice as Peary averaged in his four journeys under equal conditions, he will gain the Pole itself and have ample time to return before the ice pack becomes impassable. To quote from Mr. Peary's address:

"There are two facts I wish to bring to your attention, not in a boastful manner, but as bearing upon the feasibility of reaching the Pole. First, the average air-line distance from start to finish of four sledge journeys which I have made in high arctic latitudes is the same as the distance from the northern shore of Grinnell Land to the Pole. Second, the air-line distance from start to finish of my 1900 sledge journey is such that had my starting point been in the same latitude as that of Abruzzi it would have taken me to the Pole, or had my starting point been in the same latitude as Nansen's or on the northern shore of Grinnell Land, it would have carried me beyond the Pole.

"It may seem to indicate overconfidence to state boldly that the Pole can be reached, and yet it is a fact, even though the struggle for it has been going on unsuccessfully for years and years. Each time we have come a little nearer, each time we have learned a little more, and I say to you here tonight that it is not an impossibility; that it can be done, and that it is no more difficult than many of the great projects which we see being pushed to completion every day and which require money, persistence, hard work, and some ability to bring the full fruition.

"The man who can secure a starting point in early spring on the northern coast of Grinnell Land, who has with him the proper party and the proper equipment and experience, will hold within his grasp the last geographical prize that the earth has to offer—the prize which will rank with the prize which Columbus won for himself and his countrymen, a fame which will last as long as human life exists on the globe."

PLAN FOR CLIMBING MT McKINLEY*

BY ALFRED H. BROOKS AND D. L. REABURN

OF THE U. S. GEOLOGICAL SURVEY

DURING the past summer the writers were engaged in a reconnaissance survey in Alaska† which extended from the Pacific coast through the Alaskan Range and along its western base to Yukon waters. The route of travel lay close to the foot of Mt McKinley, and though it was no part of the plan to ascend the mountain, for which there was neither time nor facilities, time was taken to climb its slopes to snow line, and the members of the party were undoubtedly the first white men to approach the summit.

The Alaskan Range is a rugged mountain mass which extends to the northeast from the vicinity of Lake Clark, and sweeping around the great Sushitna Basin forms the watershed between Cook Inlet on the southeast and the Kuskokwim and Tanana waters on the northwest. On the east and south it rises by a series of foothills from the Sushitna River lowland and on the west it falls off abruptly to a gravel-floored plateau, which slopes gradually toward Kuskokwim waters. The southern end of the range has not been explored, but the peaks probably have attitudes of from 7,000 to 9,000 feet, while to the northward the relief increases very much and the range culminates in Mt McKinley, over ‡ 20,000 feet in height, and Mt Foraker, fourteen miles to the southwest, about 17,000 feet. To the northeast the range includes a number of peaks which are from 10,000 to 14,000 feet high, Mt Hayes, lying between the headwaters of the Cantwell and Delta rivers, being the highest. The crest line of the range lies near its western margin.

In 1898 Eldridge and Muldrow § surveyed the Sushitna River, while Mendenhall traversed the eastern end of the range; Spurr and Post crossed the southern end, and Peters and Brooks explored the region to the north along the Tanana River. In the following year, Lieut. Joseph S. Herron, U. S. A.,‖ made an exploration in the southern part of the Alaskan Range and also of a part of the Kuskokwim basin. These investigations, together with the explorations carried out by the writers, have outlined this great mountain mass, which, as has been shown, contains several of the highest peaks on the continent. The results of these surveys have given not only geographic data, but also thrown much light on the conditions of travel, distribution of timber, and on the climate of this province. The time, therefore, seems now ripe to plan an ascension of Mt McKinley.

Mt McKinley (latitude 63° 04′, longitude 151°, see map) lies in about the center of the range, measured in a northeast-southwest direction, and its summit is only about ten miles distant

* Published by permission of the Director of the United States Geological Survey.

† A report embodying the results of this expedition is now in preparation.

‡ The final adjustment of surveys have not yet been made, so that the exact altitudes can not now be given.

§ For reports on these expeditions see Vol. VII, Twentieth Annual Report, U. S. Geol. Survey.

‖ "Explorations in Alaska in 1899," War Dept., Adjutant-General's Office, No. XXXI, March, 1901.

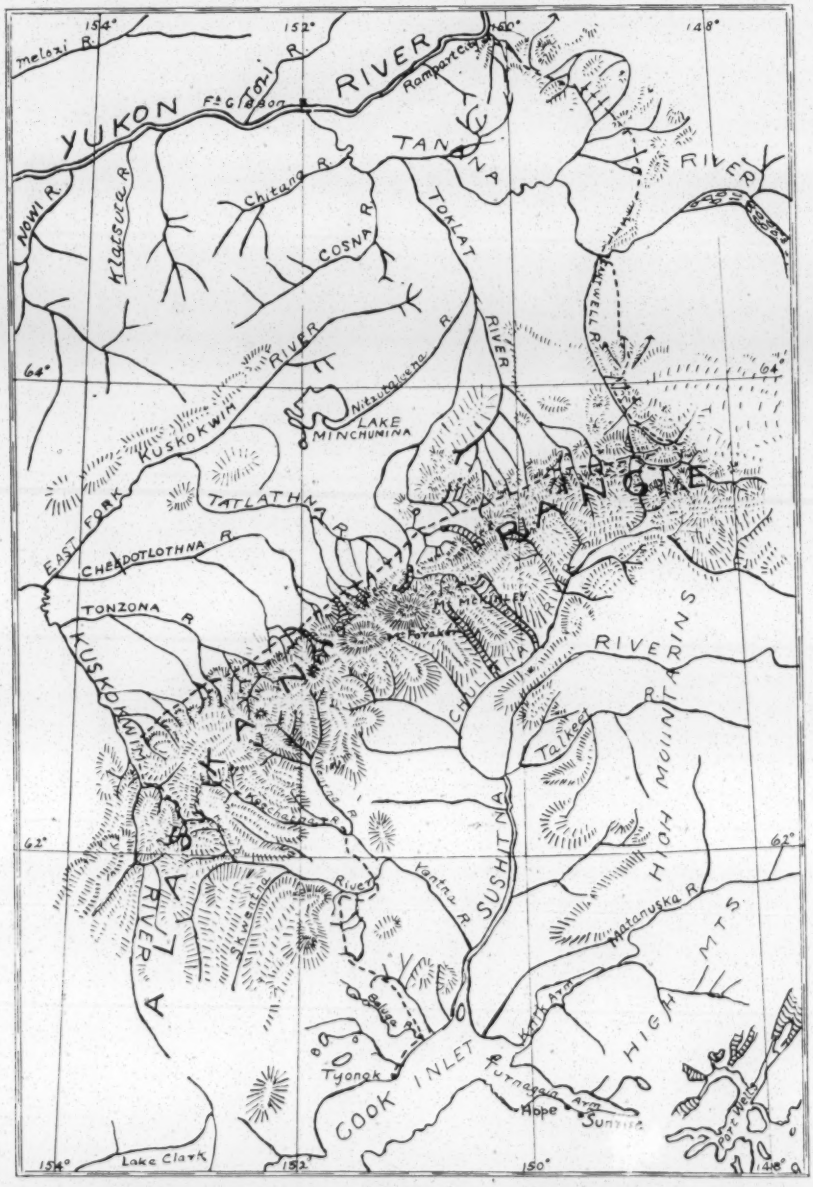
from the western margin and between forty and fifty miles from the eastern margin of the mountains. It is evident, therefore, that an expedition to climb the mountain should approach it from the northwest. This is especially true as the gravel-floored plateau on the northwest side of the range is, for the most part, above timber and, as it affords good traveling, gives ready access to the base of the mountains, where good grass is plentiful.

The mountain itself is dome-shaped and has two summits two miles apart, differing about 1,000 feet in altitude, the southernmost being the highest. Its northwestern slope is drained by a large glacier, which discharges into a river tributary to the Toklat. The most feasible route to the top of the mountain is probably across this glacier or by a ridge which separates it from a glacier flowing to the west and draining into the Tatlathna River. The topographic map now being prepared will aid the climbers, but some preliminary exploratory work to pick out the best route would have to be done. The ascent of the mountain itself would not seem to present serious difficulties to experienced mountain climbers. The fact that the snow line is about 7,000 feet, instead of being nearly at sea-level, as at St Elias, gives the Mt McKinley ascent a decided advantage. The upper limit of spruce timber is about 2,500 feet, but willow sufficient for fuel is found up to 4,000 feet. Pack-horses could find ample grass up to 3,500 feet, and by a careful choice of route could probably be taken up to snow line, on the slope of the mountain.

While the writers must disclaim any personal knowledge of high mountain climbing, yet their study of the question would lead them to believe that Mt McKinley could be ascended by making one camp at the base and three on the slopes. The base camp would be within the zone of grass and fuel, the next at snow line, and the other two at convenient points between the snow line and the summit.

The actual ascent of the mountain will present the difficulties, toils, and dangers with which the experienced mountaineer is familiar and against which he will prepare himself as far as possible. A very serious difficulty for which the average mountaineer might be less prepared is the long and difficult journey to the base of the mountain. Though Mt McKinley in an air line is only about 150 miles distant from tide water, yet to reach its northwest base from Cook Inlet necessitates a journey of at least 400 miles. This distance was traversed by the writers in about two months, but the progress was less rapid than it would have been excepting for the necessity of carrying on surveys and of exploring for a route. The party, consisting of seven men, made the journey on foot, while twenty pack-horses, most of which were loaded with provisions, carried the outfit. The time required for the journey and the energy spent in overcoming obstacles, such as chopping trails, traversing swamps, and crossing rivers, makes the reaching of the base of Mt McKinley a serious undertaking.

Our experience and knowledge of the region would lead us to propose three general plans for reaching the northwest foot of the mountain from which, as had been shown, the ascent should best be made. The first two plans involve a summer journey only, while the third would take a year for its execution. An examination of the map (page 32) will show that Mt McKinley lies about half way between the navigable waters on Cook Inlet and the Yukon River, which is navigated by river steamers. Either of these could be used as a point of departure for the long inland journey. If the project to climb the mountain were to be accomplished in one season,



Mt. McKinley Region Alaska.

Scale

0 60 120

------- Route U.S. Geological Survey Party.

the base could be reached from either Cook Inlet or from the Yukon from near the mouth of the Tanana.

If the Cook Inlet route were chosen, the party should land at Tyonek between the 15th of May and the 1st of June, equipped and provisioned for a three and a half months' journey. The journey from Seattle to Cook Inlet takes about ten days by ocean steamer. For a party of seven men twenty horses would be needed, and every additional man would require about three additional horses. From Tyonek a boat would be dispatched with a part of the provisions to meet the party at the Skwentna, so as to lighten the burden of the horses and to aid in crossing the river. From this point the boat would be sent to the Keechatno, a central fork of the Yentna, and here again would be used for crossing. The pack-train would take a northerly course from Tyonek, crossing the Beluga near the head of tide water, and thence heading directly for the lower canyon on the Skwentna; then after crossing the Keechatna would follow our trail across the Alaskan Range by way of Rainy Pass at the head of Happy River. After reaching the Kuskokwim waters it would turn to the northeast and follow the base of the range, the route being identical with that followed by our party. If such a party had exceptionally good luck (and season were an early one), it might reach the base of the mountain by the first of July. Here a camp would be established at the upper limit of timber, where good grass would be found for the horses. Climatic conditions permitting, a month could then be spent in exploring and ascending the mountain. The quickest way out of the country would probably be to the northward, either to the mouth of the Cantwell or to the mouth of the Toklat, from which point a boat could probably be secured to the Yukon. In the absence of any boat, a raft would be constructed and in a few days the current would carry the party to the Yukon. The cost of such an expedition could be approximated at $15,000 for a party of ten men.

The second plan is to go to Dawson by rail and steamer and thence down the Yukon to the mouth of the Tanana by steamer. In the event of an early season, the party would leave Skagway on Lynn Canal about June 1st, which can be reached by steamer from Seattle in four days, and the mouth of the Tanana could be reached by the middle of June. From this point, if possible, a steamer should be secured to take the party, outfit, and several horses one or two hundred miles up the Toklat to the head of steamboat navigation. The continuation of the journey would be by canoes or small boats, which would carry the supplies, while the horses would be sent across country. When the river became too shallow for canoe transportation the horses would be utilized to portage the outfit to the base of the mountain. It is expected that the expedition would be ready to begin the ascent of the mountain by the middle of July. The cost of an expedition by the Yukon route can be estimated at about $12,000.

As an introduction to the third plan it may be said that in an expedition of this kind the party is liable to be worn out by the difficulties incident to the journey to the base of the mountain. The necessity of carrying provisions for the entire trip limits the size of the party, and hence the daily tasks must be shared by all its members. Under even the best conditions, the matter of chopping trails, building bridges, crossing rivers, the incessant annoyance by mosquitoes, has a telling effect on the strength of the men, in the course of even a few weeks. It would, therefore, be advisable, if possible, to furnish each man with a saddle horse if

the overland route is taken, and thus save his strength for the task of ascending the mountain. These extra horses would, however, involve an additional expenditure of $1,000 or $2,000. The same holds true in regard to the trip from the Tanana with canoes, where the energies of the party would be spent in portaging and in dragging the canoes up against swift currents. Such work is very hard and before very long will have a marked effect on even the strongest. It is possible, therefore, that if the base of Mt McKinley was reached by either of these routes, the energy of the members of the party would be at a low ebb and not at all equal to the task of making the ascent. It should also be noted that by the two plans proposed the base of the mountain would not be reached earlier than the first or middle of July. The midsummer is very unfavorable for reaching the summit, as it is usually shrouded in clouds, and clear days are very exceptional. The clearest weather and most favorable conditions will be found in June.

In view of these facts, it is quite possible that even the best chosen and best equipped party would not be successful in the ascent of the mountain. It is the belief of the writers that success could only be assured by wintering a party in the region and transporting the provisions and outfits to the base of the mountain during the winter and early spring, when dogs could be used. With such a plan it would be possible to reserve the strength of the members of the party for the actual ascent. The writers would propose that a party be outfitted with a year's provisions, which should be sent to the mouth of the Tanana by steamer, either by way of Dawson or St Michaels. From this point a steamer should be chartered to carry the expedition to the head of steamboat navigation on the Toklat. This could probably be accomplished by the first of July, and the party could spend the remainder of the open season in boating the outfit up the Toklat and in establishing the winter camp at some convenient point.

During the winter, with the aid of dog teams, an advance party would establish a camp at timber line near the base of the mountain, and also cache provisions at convenient points on the lower slopes of the mountain. This being accomplished during the winter months, when transportation is easy by means of dog teams, the party would be prepared to take advantage of the clear weather of June to make the ascent, which, as has been shown, is a very important consideration.

A modification of this plan would be to take a steamer up the Kuskokwim, which is known to be navigable as far as the forks, and very probably above. The objection to the Kuskokwim route is that it involves a very long steamboat journey, probably five hundred or six hundred miles, up a river about which very little is known. The mouth of the Kuskokwim lies out of the usual routes of travel, and the river is not easily accessible compared with the Yukon.

The chief point is to obtain steamboat navigation to as near a point to the base of the mountain as possible, then establish a base camp, and distribute the supplies during the winter months. It probably would be advisable to take a few horses for the winter trip, as they could be utilized for transportation both during the summer and winter. If this was done feed would have to be carried for winter use, though, time permitting, it would be possible to cut grass for hay.

The winter plan does not necessitate the entire parties spending a year in the undertaking. It would be possible for one section to prepare the way during the summer and early winter months, while another joined them in March or April by traveling from Dawson with dog teams.

XUM

It is the belief of the writers that if the winter trip were undertaken there would be every reason to anticipate a successful result for the expedition. The objection to the plan is, of course, the time which would be required, and also the very heavy additional expense. While it is difficult to estimate the cost of the winter party, it is safe to say that it would not be less than $25,000 and might easily be double that amount.

In closing, the writers would strongly urge that if the expedition is undertaken that it be put under the direction of a man who is not only an experienced mountaineer but who has also had long training in frontier life and exploratory work, for the success of the expedition must depend in a very large measure on its leadership. They would also urge the necessity of having ample funds to thoroughly equip the party, and that each member be especially chosen for the work in hand. It is hoped that this article may encourage the organization of an expedition, so that the credit for the ascension of the highest peak on the continent may fall to some American mountaineer.

WHAT THE UNITED STATES GOVERNMENT DOES TO PROMOTE AGRICULTURE

IT may be stated without exaggeration that no government in the world does so much as the United States to promote the agricultural interests of the country. A tea has been imported which is now being grown successfully in South Carolina. In a short while enough Sumatra tobacco will be grown in Connecticut to satisfy the American market, which has been paying $6,000,000 annually to import Sumatra tobacco. A new variety of long staple cotton, having nearly double the value of the old variety, has been created; new wheats and new rices have been introduced, and even a new orange, which will resist frost more vigorously than those now grown in Florida. These are only a few instances of products which are now being successfully raised within the United States as a result of the watchfulness and teaching of the Department of Agriculture. The fixed capital of agriculture in the United States amounts to twenty billions of dollars, or four times that invested in manufactures. How the American farmer and the consumer are protected and assisted by expert care may be seen from the following abstract of the last annual report of Hon. James Wilson, Secretary of Agriculture, who has done more for the agricultural interests of the United States than any man in its history:

INSPECTION OF MEAT

The Bureau of Animal Industry has made nearly 60,000,000 ante-mortem inspections for the year, at a cost of a fraction over one cent each. The number of post-mortem inspections was nearly 39,000,000. The meat-inspection stamp was affixed to over 23,000,000 packages of meat products, and the number of certificates of ordinary inspection issued for meat products for export, exclusive of horseflesh, was 32,744. The quantity of pork examined microscopically and exported exceeded 33,000,000 pounds. Altogether, the value of exports of animals and animal productions for the year amounted to $244,733,062.

LONG STAPLE COTTON

One of the greatest needs in improving the cotton industry in the United States has been to secure a long staple upland variety of good quality and productiveness. Several varieties of the ideal type have been produced, and the past year's experiments show conclusively that these varieties can be made permanent. Egypt and South Africa are waking up to their possibilities in cotton production, and we must develop and grow better and more productive varieties than will be grown by our competitors.

AMERICAN TEA

The work on the growing of American tea was continued during the year at Pinehurst, near Summerville, S. C., in coöperation with Dr Shepard. There are now about 100 acres in tea gardens. The yield of tea in these gardens last year was about 4,500 pounds and this year will be about 9,000 pounds of marketable tea. During the year careful attention was given to reducing the cost of the production of tea, with very satisfactory results. A tea farm will be established in Texas if suitable land and coöperation can be secured.

LAND-GRANT COLLEGES

Statistics of attendance at the land-grant colleges show over 42,000 students enrolled, an increase over the previous year of 7 per cent. The attendance for the four-year course in agriculture increased more than 26 per cent. The Secretary points to the marked success of agricultural high schools in Minnesota and Nebraska as an indication that there is a demand for agricultural courses with those afforded in various manual arts in the city high schools. He states that all over the country farmers are sending their children to public high schools and paying for their tuition.

GROWING SUMATRA TOBACCO

The commercial success of the shade-grown Sumatra tobacco in the Connecticut Valley has now been fully assured, and the plan adopted by which last year's crop, after being carefully cured and sorted under the direction of the department's experts, was catalogued and offered for sale at public auction, under the supervision of the committee of tobacco brokers, with Hon. E. Stevens Henry, M. C., as chairman, proved highly satisfactory. The ordinary tobacco grown in the open fields in Connecticut brings from 18 to 20 cents a pound. The average price paid for the shade-grown tobacco was $1.20 a pound. The cost of this tobacco, baled and ready for market, averaged 51½ cents a pound. The net profit per acre on the best crop raised on a lot of about six acres exceeded $1,000 per acre. The reports from cigar manufacturers show that the leaf of this Connecticut, grown Sumatra tobacco has successfully stood the test of manufacture.

At the present time the department is advising and instructing thirty-eight growers in Connecticut and Massachusetts cultivating 645 acres of shade tobacco. It may be said of this line of department work that it has demonstrated our ability to produce a leaf for which about $6,000,000 have annually been paid to foreign countries.

The tobacco situation in Texas and Ohio has been thoroughly studied with a view to the production of a desirable type of filler tobacco equal to the imported Cuban leaf, and it is believed that by careful methods of cultivation, fermentation, and assorting this can be done. In fact, leaf has actually been grown that cannot be distinguished from the imported Cuban when properly fermented.

EXPORTS OF FRUIT

He reports investigations having for

their purpose the extension of the export trade in fruits and vegetables, and improvement in methods of handling these products for foreign and domestic use. Several experimental shipments have been made to European markets. The results have been fully satisfactory, the net returns in most cases exceeding domestic values. The net returns are largely influenced by the kind of packages and methods of packing and shipping.

The examination of imported food products for the purpose of determining whether they contain substances injurious to life has been continued by the Bureau of Chemistry. Particular attention has been given to the adulterations of olive oils, with the object of securing an honest market for domestic oils now compelled to compete with cheaper and adulterated oils. Important investigations have been made in the sugar laboratory with a view to improving the quality and quantity of table sirups.

WEATHER BUREAU WARNINGS

The past year affords gratifying evidence of the value of forecast warnings of the Weather Bureau in saving life and property. Ample testimony is afforded that the value of property thus saved from loss amounts to many times the cost of maintaining the Bureau. The Secretary urges the desirability of extending the distribution of daily forecasts coextensively with the rural free delivery. Of the 10,000 rural free delivery routes existing August 1, 1902, it has been found possible to serve only 1,000. To make the distribution coextensive with the rural free delivery would, he estimates, cost about $100,000.

APPALACHIAN FOREST RESERVE

The Secretary enters an earnest plea for the establishment of the Appalachian Forest Reserve. He states that the water power, at an aggregate annual value of $20,000,000, is being gradually destroyed through increasing irregularity in the flow; that the soils washed down from the mountain slopes are rendering annually less navigable the Ohio, Tennessee, Mississippi, and other rivers. These are the results of the deforestation of these mountain slopes. He states that the rate of land erosion on these slopes from which the forest cover has been removed is as great now in a single year as during ten centuries when covered with primeval forests.

WORK IN FORESTRY

Interest in forestry and a perception of its possibilities as a great national resource have developed so swiftly in the United States that the discrepancy between the capacity for government service of this branch of the department and its opportunities was never so great as now. During the past year the Bureau of Forestry has notably increased its store of knowledge on which all forestry depends and has made large gains in introducing practical management of forests of both public and private ownership. Its field-work has engaged 162 men and has been carried on in forty-two states and territories.

Extensive studies were made of commercial trees during the year, and studies of the forest and its industrial relations were made in Michigan, Kentucky, Ohio, Texas, New Mexico, Arizona, South Dakota, Wyoming, Montana, California, and Iowa.

STUDY OF SOILS

The soil survey has been greatly extended, and the division of soil management started during the year gives promise of highly important results. The Bureau of Soils now employs a force of over one hundred persons, seventy-five of whom have had scientific training. The usefulness of this bureau has been greatly extended by coöperation with state institutions, ex-

periment stations, boards of agriculture, and geological surveys, as well as with other bureaus and divisions of this department of the government. An assistant has been furnished to the War Department to organize a soil survey in the Philippines. The area surveyed and mapped during the fiscal year was over 14,500 square miles, or not far from 10,000,000 acres, making a total survey to date of over 14,500,000 acres. This area is distributed in twenty-five states and territories and in Porto Rico.

PUBLICATIONS

The publication work of the department has been unprecedently active. The total number of publications issued was 757. The total number of pages of new matter edited for publication was 81,184. The aggregate number of copies of all publications issued was 10,586,580. Of this number 6,150,000 were Farmers' Bulletins, and of these the Congressional distribution took 4,289,126. Including the Year-book and other reports paid for by special appropriations, the cost of the publication work amounts to about $800,000, but the number of publications is still inadequate to supply the demand.

GROWTH OF INDUSTRY

The Secretary concludes his report with some interesting figures illustrative of the magnitude of the agricultural industry. In 1900 the fixed capital of agriculture was about twenty billions of dollars, or four times that invested in manufacture. In that year there were nearly five million seven hundred and forty farms in the country, covering eight hundred and forty-one million acres, four hundred and fifteen millions of which consisted of improved land. According to the returns of the last census, about forty million people, or more than half of the total population in 1900, resided on farms. Of the twenty-nine million persons reported as engaged in gainful occupations, ten million—more than a third—were employed in agricultural pursuits. The produce of American agriculture in 1899, including farm animals and other products, aggregated nearly five billion dollars. The most valuable crop was Indian corn, $828,000,000; then hay and forage, $484,000,000; then cotton, $324,000,000; wheat returned $370,000,000, and oats $217,000,000. The animals sold and slaughtered during the year were valued at over $900,000,000, the products of the dairy gave $472,000,000, while poultry and eggs returned over $281,000,000. The concluding statement of the Secretary is that results in the work of the government for agriculture are justifying expenditures, and "the future will still further show the value of science applied to the farm."

EXTRACT FROM PRESIDENT ROOSEVELT'S MESSAGE TO CONGRESS, DECEMBER, 1902

In no department of governmental work in recent years has there been greater success than in that of giving scientific aid to the farming population, thereby showing them how most efficiently to help themselves. There is no need of insisting upon its importance, for the welfare of the farmer is fundamentally necessary to the welfare of the Republic as a whole. In addition to such work as quarantine against animal and vegetable plagues, and warring against them when here introduced, much efficient help has been rendered to the farmer by the introduction of new plants specially fitted for cultivation under the peculiar conditions existing in different portions of the country. New cereals have been established in the semi-arid West. For instance, the practicability of producing the best types of macaroni wheats in regions of

an annual rainfall of only ten inches or thereabouts has been conclusively demonstrated. Through the introduction of new rices in Louisiana and Texas, the production of rice in this country has been made to about equal the home demand. In the southwest the possibility of regrassing overstocked range lands has been demonstrated; in the north many new forage crops have been introduced, while in the east it has been shown that some of our choicest fruits can be stored and shipped in such a way as to find a profitable market abroad.

GEOGRAPHIC NOTES

IS GERMANY THE CAUSE OF DENMARK'S REFUSAL TO SELL HER WEST INDIAN POSSESSIONS?

GERMANY has always wanted a naval station in the West Indies, but has been unable to obtain one on account of the Monroe Doctrine.

Some years ago Denmark offered to sell the Danish West Indies to the United States, but the United States Congress did not accept. Recently another treaty was made and ratified by the United States Congress, but this time, for some unknown, mysterious reason, Denmark refused to sell. Why?

It is well known that Germany has always wanted Denmark, and if by some peaceable means the kingdom of Denmark should become a State of the German Empire, the Danish West Indies would not have changed sovereigns, but yet the German fleet could have its station there.

Would the Monroe Doctrine interfere with this arrangement?

THE AMOUNT OF WATER HIDDEN BENEATH THE SURFACE

THE amount of water within the crust of the earth, says Professor Charles S. Slichter, in a paper entitled "The Motion of Underground Waters," recently published by the U. S. Geological Survey, is enormous, amounting to 565,000 million million cubic yards. This vast accumulation, if placed upon the earth, would cover its entire surface to a uniform depth of from 3,000 to 3,500 feet. His estimate is based upon the supposition that the average depth which waters can penetrate beneath the surface is six miles below the land and five miles below the ocean floor.

Experiments have shown that not only sands and gravels are porous, but rocks supposed to be solid and compact may be traversed by water. Even so hard a rock as Montello granite, selected for the sarcophagus of the tomb of General Grant on account of its great strength, shows a porosity of 0.23 per cent. The most productive water-bearing rocks are found to be the porous sandstones, and in some cases limestones whose inner texture has been chemically dissolved.

The great mass of ground water slowly percolates through sand and gravel deposits, sandstone, and other porous material under a wide extent of territory. Though its motion carries it but a fraction of a mile in a year, this ground water is so widespread and often so accessible as to be of the greatest economic importance.

The water supply in many sections of the United States depends on an understanding of the water deep beneath the surface. Hence the study of underground water conditions is one of the most important works of the U. S. Geological Survey. It is carried on in arid regions, where water for irrigation is of the greatest value. In the middle west, where grazing and successful

farming largely depend on it, and in the east, where an unpolluted supply for domestic and municipal use is yearly becoming a more serious problem.

LOUBAT PRIZES

THROUGH the generosity of the Duke of Loubat, whose interest in American studies is well known, two prizes, to be called the Loubat Prizes, have been established at Columbia University, to be awarded every five years for the best original works dealing with North America at any period preceding the Declaration of Independence. The value of the first prize is not less than one thousand dollars, and that of the second prize not less than four hundred dollars, and the competition is open to all persons, whether citizens of the United States or of any other country.

These prizes are offered in the year 1903, and the undersigned have been delegated to act as a Committee of Award. Original manuscripts, books, and pamphlets offered in competition may be sent to any member of the committee prior to June, 1903. The conditions of the award are as follows:

(*a*) That the work submitted shall treat of the history, geography, or numismatics of North America prior to 1776, or of some topic comprised within these general subjects.

(*b*) That it shall embody the results of original research, be written by a single person, and be submitted by the author himself.

(*c*) That it be written in the English language.

(*d*) That if a printed work, it shall have been published for the first time not prior to 1898, and if in manuscript, the author shall agree to publish the work within one year from the date of the award.

(*e*) That the committee is empowered to withhold one prize or both if no works, or but a single work, be deemed worthy of the award.

(*f*) That all works submitted shall be placed, after the award, in the library of Columbia University, and that five copies of the prize-winning works shall be presented to Columbia University for distribution according to the conditions prescribed in Mr. Loubat's deed of gift.

(*g*) It is furthermore requested that all copies printed subsequent to the award should bear upon the title-page the words:

LOUBAT PRIZE.
Columbia University, in the City of New York.

Competitors should address all communications to any of the undersigned:

Professor William M. Sloane, Columbia University (chairman)—History.

Dr Alexander Graham Bell, President National Geographic Society—Geography.

Dr George N. Olcott, Lecturer on Roman Archæology, Columbia University—Numismatics.

SUBDUING THE NILE

DECEMBER, 1902, marked the opening of the great Nile reservoir and dam, which will increase by one-fourth the farming land of Egypt. Stated differently, Egypt before the reservoir was built had about 10,500 square miles of arable land stretching along the Nile; the resevoir will give her 2,500 square miles more, so that this great work will add an area twice the size of Rhode Island to the farming land of the country. Chalmers Roberts in "The World's Work" for December presents a capital article on this enormous engineering task so successfully achieved. The following paragraphs may be quoted:*

"It is estimated that the permanent benefit resulting will reach $100,000,000. There will be added to the revenue from the sale of water and from taxation on

*_The World's Work_. Vol. 5, No. 2. Subduing the Nile. By Chalmers Roberts.

the irrigated lands $10,000,000. The government will further realize considerable sums from the sale of reclaimed public lands and indirect revenues traceable to the country's augmented producing capacity. Egypt is virtually rainless, but wherever the Nile water can be regularly supplied to the soil the most beautiful crops follow, which, like cotton and sugar, command high prices because of their excellence. With a reliable water supply, farming in Egypt can be pursued with practically certain success. Four or five hundredweight of long staple cotton per acre may be expected, which, owing to its excellence, easily sells for two cents a pound more than American cotton sells for, which in its turn does not average two hundredweight to the acre. Even with the general depression of sugar in the world's markets Egyptian agriculture is confident of obtaining similar advantages for its cane product.

"It is useless to tell most people that the reservoir at Assuân will contain 1,000,000,000 tons of water. This reservoir, according to Sir Benjamin Baker, will hold more than enough water to make one year's full domestic supply to every city, town, and village in the United Kingdom, with its 42,000,000 inhabitants. During the three or four summer months when the Nile is low, and the needs of cultivators are greatest, the flow from the reservoir will be equivalent to a river double the size of the Thames in mean annual flood condition.

"Here will be created in the heart of the African desert a lake having two or three times the superficial area of Lake Geneva, in Switzerland, and throwing back water for a distance of 140 miles."

GOVERNMENT MAPS RECENTLY ISSUED

A NUMBER of topographic maps of portions of New York State have just left the press of the United States Geological Survey and are available to the public. They are maps of the Phelps, Weedsport, Morrisville, and Waverly quadrangles, in the central portion of the State; the Canajoharie, Willsboro (Lake Champlain), and Oyster Bay quadrangles in eastern New York, and the Lockport and Niagara Falls and vicinity quadrangles in the western portion.

The survey has also issued a new and accurate topographic map of portions of Sauk, Columbia, and Adams counties, Wisconsin, on either side of the Wisconsin River between Kilbourn and Portage. The map is known as that of the Briggsville quadrangle and is on a scale of about one inch to the mile. A map of portions of Marathon, Lincoln, and Langdale counties, in the center of the State, is now in press.

The Geological Survey has also reprinted its topographic map of part of the Lake Michigan shore known as the Racine sheet, which includes the cities of Racine and Kenosha and about ten miles of the country to the west. It is on the same scale as that of the Briggsville quadrangle and forms an exceptionally accurate map of the region.

TESTING THE CURRENTS OF LAKE ERIE.

THE past season 80 bottles have been set adrift in and near Sandusky Bay in order to learn about the currents. To attract attention, a small board, painted orange and black, was attached to each bottle, and inside a notice to the finder offering him a small reward to report place and time of finding; also a map of the bay and neighboring portion of Lake Erie, on which the finder could mark the spot.

So far, 44 of the bottles have been heard from. When found within two or three days, as frequently occurred, the course the bottle had taken could generally be accounted for by examining the wind record for the period it

was floating and a day or two before. Inside the bay the course of the bottle depends largely on whether water is entering or leaving the bay, and this depends mainly on the direction and velocity of the wind compared with the way it has been blowing for some hours or days before.

The bottles displaced about 700 cubic centimeters and, except the first 26, were weighted with sand to make them sink beneath the board. In a few instances bottles one, three, and five feet beneath the surface were started simultaneously.

An account of these experiments will be published in the next annual report of the Ohio Academy of Science.

E. L. MOSELEY.

Sandusky, Ohio, December 15, 1902.

GEOGRAPHIC LITERATURE

The Uganda Protectorate. By Sir Harry Johnston. With 506 illustrations from drawings and photographs by the author, 48 full-page colored plates by the author, and 9 maps. Two vols. Pp. 1018. 8 x 10 inches. New York: Dodd, Mead & Co. 1902. $12.50 *net.*

This is one of the most important works relating to Africa that has been published in recent years. The completion of the Uganda Railway during the past year, opening this vast equatorial province to direct communication with the world, makes the work specially timely. Sir Harry Johnston describes the tremendous work done by the British government toward pacifying and educating the Uganda peoples. The task is costing many millions of pounds sterling, but the commercial profits that will ensue will, in his opinion, far outbalance the expense. The larger part of the two volumes is devoted to a description of the varied races, the animals, and the plant life in the protectorate. An unusual feature are fifty colored plates from drawings by Sir Harry Johnston and over 500 illustrations from photographs taken by him during his twenty months of exploration in Uganda. The following extract from the author's preface gives a very good idea of the protectorate:

"The territories which are comprised within the limits of the Uganda Protectorate during the time of my administration of that portion of the British sphere in East Africa certainly contain within an area of some 150,000 square miles nearly all the wonders, most of the extremes, the most signal beauties, and some of the horrors of the Dark Continent. Portions of their surface are endowed with the healthiest climate to be found anywhere in tropical Africa; yet there are also some districts of extreme insalubrity.

"The Uganda Protectorate offers to the naturalist the most remarkable known forms amongst the African mammals, birds, fish, butterflies, and earth-worms, one of which is as large as a snake and is colored a brilliant verditer-blue. In this protectorate there are forests of a tropical luxuriance only to be matched in parts of the Congo Free State and in the Cameroons. Probably in no part of Africa are there such vast woods of conifers. There are other districts as hideously desert and void of any form of vegetation as the worst part of the Sahara. There is the largest continuous area of marsh to be met with in any part of Africa, and perhaps the most considerable area of tableland and mountain rising continuously above 6,000 feet. Here is probably reached the highest point on the whole of the African continent, namely, the loftiest

snow peak of the Ruwenzori range. Here is the largest lake in Africa, which gives birth to the main branch of the longest river in that continent. There may be seen here perhaps the biggest extinct volcano in the world—Elgon. The protectorate, lying on either side of the equator, contains over a hundred square miles of perpetual snow and ice. It also contains a few spots in the relatively low-lying valley of the Nile, where the average daily heat is perhaps higher than in any other part of Africa.

"Within the limits of this protectorate are to be found specimens of nearly all of the most marked types of African man—Congo pigmies and the low, apelike types of the Elgon and Semliki forests; the handsome Bahima, who are negroids as much related to the ancient Egyptians as to the average negro; the gigantic Turkana, the wiry, stunted Andorobo, the Apollo-like Masai, the naked Nile tribes, and the scrupulously clothed Baganda. These last again are enthusiastic, casuistic Christians, while other tribes of the Nile province are fanatical Mohammedans. The Bahima are, or were, ardent believers in witchcraft. The Basoga polytheists are burdened with a multiplicity of minor deities, while the Masai and kindred races have practically no religion at all.

"Cannibalism lingers in the western corners of the protectorate, while the natives of the other parts are importing tinned apricots or are printing and publishing in their own language summaries of their past history. This is the country of the okapi, the whale-headed stork, the chimpanzee, and the five-horned giraffe, the rhinoceroses with the longest horns, and the elephants with the biggest tusks."

Animals Before Man in America. By F. A. Lucas. Illustrated. Pp. 285. 5 x 7¾ inches. New York: D. Appleton & Co. 1902. $1.25 *net*.

So little is generally known of the animals that ages ago lived on the American continent that this book by Mr Lucas will be very welcome, especially as it is written in simple, untechnical language.

Europe. By Frank G. Carpenter. With maps and illustrations. Pp. 456. 5½ x 7½ inches. New York: American Book Co. 1902. 70c.

This volume is one of Carpenter's geographical readers for children. It is a simple, reliable, and interesting description of the countries of Europe.

A Ribbon of Iron. By Annette M. B. Meakin. Illustrated. Pp. 320. 5½ x 8 inches. Westminster: Archibald Constable & Co. New York: E. P. Dutton & Co. 1902. $2 *net*.

Miss Meakin describes the incidents and sights of a trip on the Siberian Railway in 1900, just before the Boxer troubles.

The Land of the Amazons. Translated from the French of Baron de Santa-Anna Nery by George Humphery. With illustrations and map. Pp. 405. 6 x 9 inches. London: Sands & Co. New York: E. P. Dutton & Co. 1901.

The first edition of this standard work on Brazil appeared in 1884; a second edition followed in 1899. The author gives a very complete account of the nature of the country, of the character and life of the inhabitants, native and foreign, and of the explorations of the Amazon. Mr Humphery has made such a free and smooth translation that the fact that the work is a translation does not appear.

Strange Lands Near Home. Illustrated. Pp. 138. Boston: Ginn & Co. 1902.

W. E. Curtis, H. Butterworth, Frederick Schwatka, and other entertaining authors contribute to this little volume

brief sketches of Mexico, the West Indies, and South America. The book makes an attractive reader for young people.

William H. Alexander, Observer of the U. S. Weather Bureau, is the author of a bulletin entitled "Hurricanes, especially those of Porto Rico and St Kitts," recently published by the Bureau. The chapter headings are: Theories as to the Origin and Movements of Rotary Storms; Premonitory Signs of the Existence and Movement of a Hurricane; The Approach and Passage of a West Indian Hurricane — Suggestions Relative to Preparations for the Storm; Barometers, Their Care and Their Use; The United States Weather Bureau in the West Indies; Porto Rico and its Hurricanes; St Kitts and its Hurricanes; Brief Historical Notes on West Indian Hurricanes, Earthquakes, etc.

NATIONAL GEOGRAPHIC SOCIETY

November 21, 1902.— Dr G. K. Gilbert, of the Board of Manogers, in the chair. Mr O. H. Tittmann gave an address on the "Work of the U. S. Coast and Geodetic Survey," of which he is the honored Superintendent. The address is published in full in this number. At the conclusion of the paper Dr Gilbert stated that the address was so complete that he doubted whether there were any points upon which questions could be asked. If members present, however, had any questions to present, they were welcome to do so.

There being no questions, Dr Gilbert said that he would like to ask how the valuable charts and maps published by the Coast and Geodetic Survey could be obtained by the public. Mr Tittmann replied that a certain number of each edition were allotted to Congressmen and Senators for distribution among their constituents, and also a few copies were given to libraries. If a citizen was not able to obtain a map through his Congressman or Senator, he could purchase it from the Survey for a nominal sum.

November 14, 1902.—Vice-President W. J. McGee, LL D., in the chair. Dr David T. Day, Chief of the Division of Mineral Resources of the U. S. Geological Survey, gave an illustrated address on "The Coal Resources of the United States"

November 22, 1902.—Dr G. K. Gilbert in the chair. Commander Robert E. Peary, U. S. N., gave an illustrated address on his "Explorations in the Arctics, 1898–1102"

ANNOUNCEMENTS.

REGULAR MEETINGS.

January 2.—Annual meeting. Reports and elections.

January 16.—"The Work of the Hydrographic Office, Navy Department." Commander W. H. Southerland.

January 30.—"The Work of the Office of Experiment Stations, Agricultural Department" Dr A. C. True.

February 13.—"The Work of the Census Office." Hon. William R. Merriam.

February 27.—"The Work of the Naval Observatory." Capt. Charles H. Davis.

March 13.—"The Work of the Geological Survey." Hon. Charles D. Walcott.

March 27.—"The Work of the Library of Congress." Hon. Herbert Putnam.

POPULAR LECTURES

January 9.—"The Turk and His Rebellious Subjects." Mr William E. Curtis. (Illustrated.)

January 23.—"The Tragedy of Saint Pierre." Mr George Kennan. (Illustrated.)

February 6.—"From New York to London by Rail via Bering Strait." Mr Harry de Windt.

February 20.—"The Geographic Distribution of Insanity in the United States." Dr W. A. White, Director of the Binghampton State Hospital, New York.

Provisional arrangements have also been made for lectures on Colombia and the Isthmian Canal; America Before the Advent of Man; Russia of Today (by Paul du Chaillu), and a lecture by Mr John Muir.

The Lenten Course of five lectures will be delivered in Columbia Theater, F street, near Twelfth, at 4.20 o'clock, on Wednesday afternoons of February 11, 18, 25, and March 4, 11.

The subject of this course and the speakers assigned for the special topics will be announced in a later program.

MEMBERS

OF THE

NATIONAL GEOGRAPHIC SOCIETY*

(CORRECTED TO DECEMBER 1, 1902)

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JOHN, Sam'l Will. (Samuel Williamson), Room 3 2021½ 1 ave. 2725 Highland ave., Birmingham

LANE, James H. (James Henry), Ala. Polytechnic Inst. College st., Auburn

McCALLEY, Henry, University of Alabama

MELL, P. H. (Patrick Hughes), Ala. Polytechnic Institute. Auburn

PHILLIPS, J. H. (John Herbert), High School Bldg. 2231 7 ave., Birmingham

SEARCY, J. T. (James Thomas), Tuscaloosa

SHACKELFORD, E. M. (Edward Madison), State Normal College. Troy

SMITH, Eugene A. (Eugene Allen), University of Alabama

WILSON, M. C. (Marshall Clarke), 648 Poplar st., Florence

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ARIZONA

BLAKE, Wm. P. (William Phipps), University of Arizona. Tucson

BURNS, Wm. G. (William Gunton), U. S. Weather Bur. Office. Phœnix

CHANDLER, A. J. (Alexander John), Mesa

KENNEDY, Harry M. (Harry M——), Phœnix

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PURDUE, A. H. (Albert Homer), University of Arkansas. Fayetteville

RIGHTSELL, J. R. (Jacob Riley), 800 Louisiana st. 615 West 16 street, Little Rock

* In May, 1902, by amendment to the by-laws of the Society, a class of Fellows was established. The election of Fellows is vested in the Board of Managers. No Fellows have yet been elected, nor will any elections be made before January 1, 1903.

CALIFORNIA

ARCHIBALD, James F. J. (James F—— J——), 966 18 street, Oakland
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BAKER, Lucius, P. O. Drawer 2596, Fresno
BELL, Aaron H. (Aaron Hayden), corner 3 and G. 128 F st., Eureka
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BETTS, Rev. Joseph M. (Joseph M——), Arcade Depot. Los Angeles
BLAKE, Anson S. (Anson Stiles), 6 California st., San Francisco. 2231 Piedmont avenue, Berkeley
BLAKE, Mrs Charles T. (Harriet W——), 2235 Piedmont Way, Berkeley
BRANNER, J. C. (John Casper), Stanford University
BRIDGE, Norman, 217 South Broadway, Los Angeles. 100 Grand avenue, Pasadena
CARPENTER, Ford A. (Ford Ashman), U. S. Weather Bureau Office, 1326 F street. 3655 2 street, San Diego
CHAMBERLAIN, J. F. (James Franklin), State Normal School, Los Angeles. 40 South Hudson avenue, Pasadena
COMSTOCK, Theodore B. (Theodore B——), Los Angeles
COUCH, Capt. Thomas, Oroville
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DAVIDSON, George, 530 California st. 2221 Wash'n st., San Francisco
DUDLEY, William R. (William Russel), Leland Stanford, Jr., University
EATON, F. W. (Frederic Ward), 216 Bush st., San Francisco. Redwood
ERSKINE, Alfred M. (Alfred M——), Orange Grove Boulevard, Pasadena
ESTRELLA, T. H. d' (Theophilus Hope d'), Calif. Inst. for Deaf., Berkeley
FITZGERALD, R. M. (R—— M——), 313 14 street, Oakland
FOLLANSBEE, A. W. (Alonzo Walter), 202 Sansome street. 2426 Pine street, San Francisco
FOSHAY, James A. (James A——), 315 South Broadway. 2341 Scarff street, Los Angeles
GILLIS, J. L. (James Louis), State Capitol Bldg. 1220 7 st., Sacramento
GILSON, J. C. (Jewett Castello), 575 13 street, Oakland
GRADY, Theodore, 2809 Kelsey street, Berkeley
GRIFFIN, Lieut. T. D. (T—— D——), Navy Yard, Mare Island
HAMLIN, Homer, Room 408 Byrne Block, 253 S. Broadway. 1021 S. Union avenue, Los Angeles
HANDBURY, Thomas H. (Thomas Henry), 809 Market st., San Francisco
HARVEY, F. H. (Frederic Hall), Galt
HEALION, M. C. (Michael Charles), Room 12 McKie Building, 1023 5 st., NE. cor. 5 and D sts., San Diego. Brewster Hotel, cor. 4 and C sts.

HEAP, D. P. (David Porter), 69 Flood Building, 809 Market street. 2410 Steiner st., San Francisco

HILGARD, E. W. (Eugene Woldemar), University of California. 2728 Bancroft Way, Berkeley

HUBBARD, Samuel, 98 Montecito avenue, cor. Lee street, Oakland

HUTCHINSON, Lincoln, University of California. 2727 Bancroft Way, Berkeley

HYDE, F. A. (F—— A——), 415 Montgomery street, San Francisco

JACOBS, Joseph, General Offices S. P. Co., San Francisco

KEMPFF, Louis, U. S. N., Hotel Metropole, Oakland

KENNARD, W. J. (W—— J——), M. R. C. P., Ventura

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KEYES, W. S. (Winfield Scott), NW. cor. Post and Stockton streets, San Francisco

KINNEY, Abbot, 256 S. Spring street (Stimson Block), Los Angeles. 428 Ocean avenue, Santa Monica

KNOWLES, H. J. (H—— J——), 1167 Oak street, Oakland

LAWSON, Andrew C. (Andrew C——), University of California. 2461 Warring street, Berkeley

LILIENCRANTZ, A. (Augustus), 359 Telegraph avenue, Oakland

LOUGHRIDGE, R. H. (Robert Hills), University of California. Berkeley

MCCUTCHEON, E. J. (E—— J——), San Francisco

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MIRFIN, H. G. (Henry George), Rancho Santa Clara del Norte, Ventura

MORSE, Fremont, Room 39 Appraiser's Building, cor. Washington and Sansome streets. 1641 Bush street, San Francisco

MUIR, John, Martinez

NEWGARDEN, Geo. J. (George Joseph), U. S. A., Ft. Mason, San Francisco

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OLDS, W. J. (Wilbur Jason), 418½ S. Grand avenue, Los Angeles

PARSONS, Edward T. (Edward Taylor), 118 2 st. Occidental Hotel, cor. Montgomery and Sutter streets, San Francisco

PIERCE, Harry, 728 Montgomery street. 712 Pine street, San Francisco

PIETRA, Leopoldo Schiappa, Ventura

POLITEO, M. V. (Matthew Vincent), 819 Market street, San Francisco. 2915 Van Buren avenue, Alameda

POWER, Geo. C. (George Coffin), 152 Main st. Kalorama st., Ventura

REINSTEIN, J. B. (Jacob Bert), 217 Sansome street. 906 Ellis street, San Francisco

REITER, Geo. C. (George Cook), U. S. F. S. "Wisconsin," San Francisco
RIORDAN, D. M. (Denis Matthew), 404 Bradbury Building. 822 South Alvarado street, Los Angeles
RITTER, Wm. E. (William Emerson), University of California. 2434 Durant avenue, Berkeley
ROCKWELL, W. L. (William Lincoln), 2129 17 street, Bakersfield
RODGERS, Aug. F. (Augustus Frederick), Coast Survey Office. 2516 Broadway, San Francisco
RUST, Frank N. (Frank Nelson), 122 W. 3 st. 137 N. Olive st., Los Angeles
SCHUYLER, Jas. D. (James Dix), 257 South Spring st. 419 West Washington street, Los Angeles
SCHWATKA, Mrs Ava J. B. (Ava J—— B——), Los Angeles
SMEDBERG, W. R. (William Renwick), 224 Sansome street. 1611 Larkin street, San Francisco
STANTON, J. C. (J—— Clark), C. E., Rio Vista
STEPHENS, F. (Frank), University and Fillmore avenue, San Diego
SYMMES, Frank J. (Frank Jameson), 725 Mission street. 630 Harrison street, San Francisco
TABOR, E. F. (E—— F——), Sunnyside
VAN LIEW, C. C. (Charles C——), President State Normal School, Chico
VON DER ROPP, Alfred, 121 Lake street, Oakland
VROMAN, A. C. (Adam Clark), 60 E. Colorado st. 188 E. Colorado street, Pasadena
WEST, Major Frank, 1714 Van Ness avenue, San Francisco
WILKINSON, W. (Warring), Institution for Deaf and Blind, Berkeley
WOOD, H. P. (Henry Patton), 1519 D street. 1111 Cedar st., San Diego

COLORADO

ANDERSON, George G. (George Gray), 1255 Gayloro street, Denver
BERBECKER, C. H. W. (Carl Herman Walter), 952 Downing ave., Denver
BERTHOUD, Edward L. (Edward Louis), Washington ave. 1 st., Golden
BLACKMER, H. M. (H—— M——), Geddings Building, Colorado Springs
BODFISH, F. V. (Frederick Valentine), Doyle Block, 307 Victor avenue. 319 S. 5 street, Victor
BOYNTON, G. M. (G—— M——), Coaldale. Hayden Creek
BRYANT, W. H. (William Henry), 621 E. and C. Block, 17 and Curtis streets. 1107 Pearl street, Denver
BULKLEY, Frank, 407 and 408 Equitable Bldg. 901 Logan ave., Denver
BULKLEY, Fred. G. (Frederick Groendycke), Equitable Building. 965 Pennsylvania avenue, Denver
CAMPBELL, Peter, Register United States Land Office, Akron
CARHART, W. S. (W—— S——), Engineer of Mining, Coaldale
CHOATE, Joseph K. (Joseph Kittredge), 814 Boston Building, cor. 17 and Champa streets. 1720 Sherman avenue, Denver

COOK, E. H. (Ezekiel Hanson), Ph. D., 818, 819, 820 Equitable Building, Denver. 2429 12 street, Boulder

CRAGIN, F. W. (Francis Whittemore), Colorado College. 1715 Wood avenue, Colorado Springs

CUTHBERT, L. M. (Lucius Montrose), Boston Building, cor. 17 and Champa streets. 1350 Logan avenue, Denver

FELLOWS, A. L. (Abraham Lincoln), Room 10 State Capitol Building. 1159 Logan avenue, Denver

FERRIS, Cornelius, Jr., Rohling Block, Fort Collins

FENNEMAN, Nevin M. (Nevin Melancthon), Univ. of Colorado, Boulder

HAFF, Edward L. (Edward Lawrence), 409 Bennett avenue, National Annex Block, Rooms 5, 6, and 7. 140 W. Masonic ave., Cripple Creek

HARDCASTLE, Thos. H. (Thomas Hughlett), Boston Building, 835 17 st. Charline place, 1429 Pennsylvania avenue, Denver

HILLS, Victor G. (Victor Gardiner), 379 Bennett avenue. 423 E. Carr avenue, Cripple Creek

HOPKINS, W. J. (W—— J——), Olney

JAYNE, W. A. (Walter Addison), 416 McPhee Building. Denver Club, 17 and Glenarm streets, Denver

KELLEY, Walter S. (Walter S——), Leadville

KURIE, Frank M. (Frank M——), Box 641, Victor

LAY, H. C. (H—— C——), Telluride

LOVELAND, Francis W. (Francis William), 908–909 Equitable Building, 17 and Stout streets. 1252 Corona street, Denver

LUNDSTROM, John E. (John Emil) 11 Gazette Building. 319 Cheyenne road, Loraine, Colorado Springs

MCREYNOLDS, O. O. (Orval Omar), 709 Equitable Building, 775 17 street. 1715 Vine street, Denver

MAND, Walter, The Denver Club, Denver

MICHELSEN, Henry, The Tremont, 416 16 street, Denver

MOULTON, A. B. (Arthur Billings), 709 Ernest & Cramner Building, cor. 17 and Curtis streets. 1250 Logan avenue, Denver

PEACH, Wm. (William), City Hall. 2007 Greenwood street, Pueblo

PEARCE, Harold V. (Harold V——), 1880 Gaylord st. west, Denver

PEARCE, Richard, Argo

PRESTON, Porter J. (Porter J——), Las Animas

REED, H. W. (H—— W——), Ouray

ROGERS, Henry T. (Henry Treat), Boston Building, cor. Champa and 17 streets. 1739 East 13 avenue

ROGERS, Platt, McPhee Building, cor. 17 and Glenarm streets. 1524 Washington avenue, Denver

SNYDER, Zachariah X, 928 9 street, Greeley

STAPLETON, William, Editor Denver Republican, Denver

TEARS, Daniel W. (Daniel Wade), 614 Boston Building, 17 and Champa streets. 1200 Williams street, Denver

WARD, Dr W. S. (W—— S——), 202 Boston Block, Denver
WEST, Geo. H. (George Henry), 56 Railroad Building, 1515 Larimer st., Denver. 714 10 street, Greeley
WETMORE, Edward D. (Edward Ditmars), Warren, Pa. Broadmoor, Colorado Springs
WILLIS, Frank G. (Frank G——), Cripple Creek
WOODS, F. M. (Frank Milo), Mining Exchange Building. 1806 N. Cascade avenue, Colorado Springs
WOODSON, Miss E. T. (E—— T——), 238 West 2 avenue, Denver

CONNECTICUT

BARROLL, Com'dr Henry H. (Henry Harris), U. S. N., 9 Elm st., Norwalk
BARTLETT, Charles G. (Charles G——), Black Hall
BIXLER, James W. (James Wilson), Pastor Second Cong'l Church. 5 Broad street, New London
BREWER, Wm. H. (William Henry), 4 Sheffield Hall, Grove and Prospect streets. 418 Orange street, New Haven
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CALHOUN, John E. (John Edward), Cornwall
COLCLEUGH, Mrs Emma Shaw, Journalist and Lecturer, 238 Gano street, Providence, R. I. Thompson
CORWELL, Mrs Thomas L. (Thomas Lavender), 49 Seymour ave., Derby
DANA, Edward S. (Edward Salisbury), 4 Peabody Museum. 24 Hillhouse avenue, New Haven
DAVIS, Mrs Mary R. (Mary R. Gale), Training School, Clinton avenue. 971 Fairfield avenue, Bridgeport
DEANE, Chas. W. (Charles Winslow), 938 Main street. 355 Noble avenue, Bridgeport
EMERY, H. C. (Henry Crosby), 270 Crown street, New Haven
FARNHAM, W. S. (Wallace Strong), 1134–1138 Tremont Building, Boston, Mass. South Windsor
FORD, Dr W. J. (William J——), Washington
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GRAVES, Henry S. (Henry Solon), 360 Prospect street. 337 Humphrey street, New Haven.
GREGORY, Herbert E. (Herbert Ernest), Peabody Museum, Yale University, High street. 399 Berkeley Hall, Yale University, New Haven
HOTCHKISS, H. Stuart (Henry Stuart), Secretary L. Candee Rubber Co. 55 Hillhouse avenue, New Haven
JUDD, Edwin D. (Edwin Dale), 389 Allyn st. 58 Garden st., Hartford

MacCurdy, George Grant, Room 9, Peabody Museum. 237 Church street, Hew Haven
Perkins, J. Deming (J—— Deming), Litchfield
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BIEN, Morris, General Land Office. Takoma Park, D. C
BIGELOW, Frank H. (Frank Hagar), Weather Bureau. 1625 Mass. ave
BIGELOW, Otis, Avenel, Md. 1501 18 street
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BINGHAM, D. J. (David Judson), U. S. A., retired.
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BLOOD, Ellen E. (Ellen Elizabeth), P. O. Dept. 516 East Capitol street
BLOUNT, Henry F. (Henry Fitch), 1405 G st. The Oaks, 3101 31 street
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BOARDMAN, Wm. J. (William Jarvis). 1801 P street
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BOND, Mary E. (Mary Eachus), Blake School. 818 New Jersey avenue
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BREWER, Clara G. (Clara Gertrude). The Stratford, Mt. Pleasant
BRICKENSTEIN, J. H. (John Henry), Patent Office. 1603 19 street
BRIGHT, Rich'd R. (Richard Riggs), Navy Dept. 218 Maryland ave. NE
BRISTOL, Rev. Dr. Frank M. 330 C street
BRITTON, Alex. (Alexander), Glover Bldg., 1419 F street. 1836 S street
BRODIE, Basil M. (Basil M——), Treasury Dept. 1330 New York ave
BROOKS, Alfred H. (Alfred Hulse), Geol. Survey. 1320 Wallach place
BROOKS, N. M. (Newton May), P. O. Department. 224 A street SE
BROWN, Miss Rachel C. (Rachel Cuthbert), Bu. Ind. Aff. 1008 N st
BROWN, Geo. H. (George Hay), Off. Pub. Bdgs. & Gds. 1357 Roanoke st
BROWN, Geo. W. (George Whitfield), 1406 G st. 1710 Connecticut ave

BROWN, L. K. (Lewis Kirk), Treasury Department. 134 C street SE
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BRUMBAUGH, G. M., M. D. (Gaius Marcus). 905 Massachusetts avenue
BUCK, Miss Ada P. (Ada Pamelia). 635 Maryland avenue NE
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CALVO, J. B. (Joaquin Bernardo), Costa Rican Legation. 2111 S street
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CAPPS, Naval Constructor W. L. Navy Department
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CHESTER, Major James, U. S. A., retired. 601 21 street
CHESTER, Josephine M. (Miss Josephine M.). 1016 11 street

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CHILTON, Robt. S. (Robert S.——), State Dept. 225 Delaware avenue NE
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CLARK, Egbert A., D. D. S. (Egbert Asahel). 600 13 street
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CLEAVER, F. M. (Frank M.), Weather Bureau. 2311 M street
COLE, T. L. (Theodore Lee), 13 Corcoran Bldg. 1615 Florida avenue
CONGER, Miss Florence W. (Florence West), Station C. 1141 N. H. ave
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CROSS, Whitman (Charles Whitman), Geol. Survey. 2138 Bancroft pl
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CURTIS, William E. (William Eleroy), Post Bldg. 1801 Connecticut ave
CUSHING, S. C. (Sallie Corwin). 320 Indiana avenue
CUSTIS, Geo. W. N. (George Washington Neale). 110 East Capitol street
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DALL, Wm. H. (William Healey), Smithsonian Institution. 1119 12 street
DARTON, N. H. (Nelson Horatio), Geol. Survey.
DAUGHERTY, Rev. Jerome, S. J., Georgetown College. Georgetown Univ.
DAVENPORT, J. L. (James La Roy), Bureau of Pensions. 2501 14 street
DAVIS, Arthur P. (Arthur Powell), 1330 F street. 2212 1 street

DAVIS, Mrs Jennie T. (Jennie Taylor), Geol. Sur. 3323 Holmead ave
DAWES, Charles G. (Hon. Charles Gates)
DAWSON, Thos. F. (Thomas Fulton), Star Building. 2572 University pl
DAY, David T. (David Talbot), Geol. Survey. 1302 R street
DE CAINDRY, Wm. A. (William Augustin), War Dept. 914 Farragut sq
DE MERITT, J. H. (John Henry). 1335 Vermont avenue
DETWEILER, F. M. (Frederick May), 420–422 11 street. 504 I street
DEVINE, John T. (John T——). The Shoreham, 15 and H streets
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DEVITT, G. R. (G—— R——). 7 and D streets
DEWEY, George. 1747 Rhode Island avenue
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DICKSON, Med. Insp. S. H. (Samuel Henry), U. S. N., Marine Bar. 732 21 st
DILLER, J. S. (Joseph Silas), Geol. Survey. 1454 Staughton street
DODGE, Arthur J. (Arthur J——), 1403 F street. Hotel Stratford
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DONN, Edw. W. (Edward William), 913 G street. 1708 16 street
DORRELLE, Ed. (Edward), 721 14 street. 928 I street
DOUGLASS, Mrs Helen. Cedar Hill, Anacostia
DOWNING, Mrs Mary. 1006 11 street
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DUFFIELD, Will Ward, Coast Survey. 1631 Q street
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DUNCAN, D. Wallace (David Wallace), Off. Aud. P. O. Dept. 115 5 st. NE
DUNCANSON, Chas. C. (Charles Coltman), 317–319 9 street. 1300 17 st
DUTTON, Maj. Clarence Edward. War Department
DYE, P. E. (Peleg Edwin), 514 11 street. 1403 L street
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EASTERLING, H. V. (Horace Virgil), War Department. 1541 9 street
EDSON, Jno. Joy (John Joy), 900 F street. 1324 16 street
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EIMBECK, William, Coast Survey. 1106 New York avenue
ELDRIDGE, G. H. (George Homans), Geol. Survey. Chevy Chase, Md
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ERBACH, John, Geol. Survey. 122 3 street SE
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GARNIER, Madeleine A. (Madeleine Adelaide), P. O. Dept. 1829 Oregon ave
GARRIOTT, E. B. (Edward Bennett), Weather Bureau. 1248 Princeton st
GARRISON, Miss Carl L. (Carl Louise), Phelps School. 1300 Lydecker ave
GATES, Merrill E. (Merrill Edwards), 1429 N. Y. ave. 1315 N. H. ave
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GRAVES, Edward. 927 Massachusetts avenue
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GREEN, Bernard R. (Bernard Richardson), Lib. of Cong. 1738 N street
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GROSVENOR, Gilbert H. (Gilbert Hovey), Corcoran Bldg. 1328 18 street

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HAGNER, A. B. (Alexander Burton), Court-House. 1818 H street
HAGUE, Arnold, Geol. Survey. 1724 I street
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HALL, Sam'l K. (Samuel Kellogg), Govt. Printing Office. 421 H street
HALL, W. L. Bureau of Forestry
HAMILTON, Dr William, Bureau of Education. 1023 Vermont avenue
HAMLIN, Teunis S. (Tennis Slingerland). 1306 Connecticut avenue
HANSEN, John (J. A. H. John). 704 7 street
HARDING, Miss Gena R. (Gena Russell). The Shoreham
HARDWICK, S. H., Southern Railway Co. 1315 New Hampshire avenue
HARLAN, Justice John M. (John Marshall), Sup. Court. 1401 Euclid pl
HARRIS, W. T. (William Torrey), Bureau of Education. 1303 P street
HARRISON, Miss Carrie. 1322 14 street
HART, A. (Abraham), 420 7 street. 2005 Kalorama avenue
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HAVEN, Henry L. (Henry Langdon), 623 F street. 2005 I street
HAWLEY, John M. (John Mitchell), Navy Department. 1514 R street
HAY, E. B. (Edwin Barrett), 1425 N. Y. avenue. 1512 Corcoran street
HAY, John, State Department. 800 16 street
HAY, W. P. (William Perry). 311 F street

HAYDEN, Lieut. Everett. Navy Department
HAYES, C. Willard (Charles Willard). Geological Survey
HAZARD, Daniel L. (Daniel Lyman), Coast Survey. 1445 Mass. avenue
HAZLETT, Isaac. The Hamilton, 14 and K streets
HEAD, J. F. (John Frazier). 2015 R street
HEARD, Hon. A. (Augustine). 921 18 street
HEARST, Mrs Phebe A. (Phebe Apperson). 1400 N. H. avenue
HEATON, A. G. (Augustus George). 1618 17 street
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HEILPRIN, Giles F. (Giles Fabian), 1203 F street. 926 B street SW
HENDERSON, C. W. (Charles W——), 507 12 street. The Chapin
HENDERSON, Julia (Julia Doty), Indian Office. 1826 G street
HENDERSON, John B., Jr. (John Brooks), 1416 F st. 1601 Florida ave
HENDERSON, Miss N. (N——). *Address unknown.*
HENDGES, M. (Matthew), General Land Office. The Garfield, 901 13 st
HENNIG, Frederick, Washington Barracks. 1831 5 street
HENRY, A. J. (Alfred Judson), Weather Bureau. 1322 Columbia road
HENRY, E. S. (Edwin Stanton), Patent Office. 1320 Columbia road
HERBERT, Hon. H. A. (Hilery Abner), 1419 G street. 1612 21 street
HERRON, Joseph S. (Joseph Sutherland), War Department. The Donald
HERRON, Wm. H. (William Harrison), Geol. Survey. 1508 Q street
HEURICH, Christian, 26 and Water streets. 1307 New Hampshire ave
HICKEY, Susanna G. (Susanna Goode), Harrison School. 1202 Q street
HICKS, Frederick C. (Frederick C——). Library of Congress
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HITZ, John, Volta Bureau. 1709 35 street
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HOLBROOK, Theodore Lewis, 1420 New York avenue. Cleveland park
HOLDEN, Henry P. (Henry Prichard), Bureau of Pensions. 1211 I street
HOLLIGER, Frank S. (Frank Samuel), War Department. 1112 N. Y. ave
HOLMEAD, Alfred H. (Alfred H——), Interstate Com. Com. The Iowa
HOLMES, W. H. (William Henry), National Museum. 1444 Staughton st
HOLT, H. P. R. (Henry Peter Renouf), Treasury Dept. Takoma Park
HOPKINS, Archibald, Court of Claims. 1826 Massachusetts avenue
HOPKINS, James H. (James Herron). 1324 18 street

HOPKINS, Martha G., Bureau Engraving and Printing. 2034 G street
HORNBLOWER, Jos. C. (Joseph Coerten), 1509 H street. 1402 M street
HOSIER, F. M. (Francis Marion), Bu. of Nav., Navy Dept. 1204 S street
HOUGH, Franklin H. (Franklin Horatio), Atlantic Bldg. 1315 T street
HOUGH, Helen M. (Helen Maria), 1330 F street. 332 Indiana avenue
HOVEY-KING, Alvin, Bureau of Statistics. 1732 21 street
HOWARD, A. L. (Arcturus Lee). 124 S street
HOWARD, L. O. (Leland O.), Department of Agriculture. 1336 30 street
HOWELL, Edwin E. (Edwin Eugene), 612 17 street. 2032 G street
HOYT, Henry M. (Henry Martyn), Dept. of Justice. 1516 K street
HUBBARD, Mrs Gardiner Greene. "Twin Oaks," Woodley lane
HUTCHINS, Stilson. 1603 Massachusetts avenue
HUME, Frank, 454 Pennsylvania avenue. 1235 Massachusetts avenue
HUTCHESON, David, Library of Congress. 401 B street NE
HUTCHISON, Miss Jessie E. (Jessie Elizabeth), P. O. Dept. 305 D street
HUXFORD, Maj. W. P. (William Pitkin), Atlantic Bldg. 1806 H street
HYDE, Miss E. R. (Eliza Reed), Off. Comp. Cur., Treas. Dept. 1326 I st
HYDE, John, Department of Agriculture. Lanier Heights
HYNSON, Laurence M. (Laurence Maxwell), Corcoran Bldg. 623 S. C. ave

IDE, George R. (George Russell), Patent Office. 801 A street SE

JACKSON, Sheldon, Bureau of Education. The Concord, 1701 Oregon ave
JAMES, Mrs Sarah S. (Sarah Stubbs). 1517 O street
JANSON, Ernest N., Navy Department. 802 Rhode Island avenue
JEWELL, Claudius B. 1324 Vermont avenue
JOHNSON, A. B. (Arnold Burges), Treasury Department.
JOHNSON, Arthur E. (Arthur Edward), War Dept. 1833 Vermont ave
JOHNSON, Enoch G. (Enoch George), House of Reps. 1827 Corcoran st
JOHNSON, Frank E. (Frank Evan), Treasury Department. 1845 R street
JOHNSON, Theo. H. (Theodore Halfdan), Geol. Survey. 1115 S st
JOHNSON, Willard D. (Willard Drake), Geol. Survey.
JOHNSTON, James M. (James Marion), Riggs Nat'l Bank. 1628 K street
JOHNSTON, John A. (John ——). 1752 Q street
JONES, Dr E. S. (Edward Salmon), Treasury Department. The Cairo
JONES, Louise Tayler. 1340 21 street
JONES, Col. W. A. (William Albert), Balto. and Phila. 1800 Conn. ave
JUDD, Geo. H. (George Herbert), 420–422 11 street. 511 3 street NE

KASSON, John A. (John Adam). 1726 I street
KATTELMANN, Carl. 715 7 street
KAUFFMANN, S. H. (Samuel Hay), 1101 Pa. ave. 1421 Mass. ave
KEILLER, Mrs William. The Portner, 15 and U streets
KELLY, Joseph T., D. D. (Joseph Thomas). 1367 Kenesaw street

KEMPER, Chas. E. (Charles E——), Treasury Dept. 1310 Riggs street
KENDALL, Frederick A. (Frederick Albert), 533 15 st. 1455 W street
KENDALL, Maj. H. M. (Henry Myron), U. S. A. Soldiers' Home
KENNAN, George. The Mendota
KERN, J. Q. (Josiah Quincy), Winder Bldg., 17 and F sts. 507 6 street
KIBBEY, Bessie J. (Bessie Juliet). 2025 Massachusetts avenue
KIMBALL, Dr E. G. (Ephraim Gardner), Jefferson Sch'l. 1204 Mass. ave
KIMBALL, H. H. (Herbert Harvey), Weather Bureau. 317 T street
KIMBALL, S. I. (Sumner I——), Life-Saving Service. 1316 R. I. ave
KING, Frank B. (Frank Bockins). 1442 Rhode Island avenue
KING, F. H. (Franklin Hiram), Bu. of Soils, Dept. Agric. 205 9 street SW
KING, George A. (George Anderson), 728 17 street. 1611 28 street
KIRBY, Chf. Eng. Absalom, U. S. N. 405 C street SE
KLAKRING, A. (Alfred), Hydrographic Office, Navy Dept. 1137 N. J. ave
KNAPP, Martin A. (Martin Augustine), Sun Building. The Portland
KOERPER, E. A. (Egon Anthony). 2234 Q street
KRAEMER, Charles. 735 7 street
KÜBEL, Stephen J. (Stephen Joseph), 1330 F st. 628 East Cap. street
KUMLER, B. W. (Benjamin Walter), Civil Serv. Com. Kensington, Md
KUMLER, Mrs J. P. E. (Abigail Goulding). 2005 Massachusetts avenue
KURTZ, Dr John. 3142 P street

LACEY, E. A. The Octagon
LAMBERT, T. A. (Tallmadge Augustine), 410 5 street. 1219 Mass. avenue
LAMBIE, James B. (James Baird), 1415 New York avenue. 714 21 street
LANDER, Mrs J. M. (Jeane Margaret). 45 B street SE
LANDON, Mrs Hal. D., Paymaster General's Office.
LANGILLE, H. D. (Harold Douglas), Geol. Survey.
LANGLEY, S. P. (Samuel Pierpont), Smithsonian Inst. Metropolitan Club
LANSBURGH, Julius, 512 9 street. Cochran Hotel
LARNER, Philip F., 918 F street. 1746 P street
LAW, Mary A., box 464, Station G. 101 North Carolina avenue SE
LEE, Rev. Thomas S. Lee (Thomas Sim). 1739 Rhode Island avenue
LEITER, L. Z. (Levi Zeigler). Dupont Circle
LEITH, Chas. A. (Charles Augustus), Dept. of Agric. 1461 Fla. ave
LEMON, Dr H. T. A. (Hanson Thomas Asbury). 629 G street
LENMAN, Miss I. H. (Isobel Hunter). 1100 12 street
LESH, W. W. (William Williams), Winder Building. 210 T street
LESTER, F. A. (Frederick A——), Corcoran Building. 1312 I street
LEVERING, Thos. H. (Thomas Henry), War Department. 1435 Chapin st
LEWIS, Fulton, 1335 F street. 3033 Irving place
LINDENKOHL, A. (Adolphus), Coast Survey. 19 4 street SE
LINDENKOHL, H. (Henry), Coast Survey. The Iowa, 13 and O streets
LINKINS, Geo. R. (George Reiss), 507 E street. 1923 G street

LISNER, A. (Abraham), 11 and G streets. 1723 Massachusetts avenue
LITCHFIELD, Grace Denio. 2010 Massachusetts avenue
LITTELL, Frank B. (Frank Bowers), Naval Observatory. 1825 13 street
LITTLE, Charles W. (Charles William), P. O. Department. 3110 13 street
LITTLE, Norton M. (Norton Mitchell), 1210 F street. 1123 Dartmouth st
LITTLEHALES, G. W. (George Washington), Hydro. Off. 2132 Le Roy pl
LOFTUS, Edward (Edward Herbert), Siamese Legation. Arlington Hotel
LONG, C. C. (Charles C.), Dept. of Justice. "Argyle," 14 Street road
LORD, Miss Cora A. (Cora Adella), Post-Office Dept. 1243 N. J. avenue
LORD, Daniel W. (Daniel Walter), Patent Office. 1333 Q street
LORING, Mrs Charlotte. The Colonial
LOTHROP, Alvin Mason, 11 and F streets. 1303 K street
LOW, James P. (James Patterson), Treasury Dept. 1328 Corcoran street
LUDINGTON, M. I. (Marshall I——), War Department. 1818 Q street
LUEBKERT, Otto J. J. (Otto James John), Bureau of Forestry. 1804 R st
LUM, W. David (W—— David). 128 S street
LUSK, Maj. Jas. L. (James Loring), War Department. 1709 21 street
LYMAN, Chas. (Charles Lyman), Treasury Dept. 1243 New Jersey ave

McBRIDE, Miss Marguerite. 450 Pennsylvania avenue
McCABE, Thos. (Thomas), Depot Q. M. Office. 206 Kentucky ave. SE
McCALL, Mrs Samuel W. 1703 Q street
McCAMMON, Jos. K. (Joseph Kay), Bond Building. 1324 19 street
McCENEY, Miss Mary E. (Mary Elizabeth). The Shoreham, 15 and H sts
McCORMICK, Jas. (James), Geol. Survey. Hotel Stratford
McCONNELL, Mrs M. R. (Matilda R——). 201 East Capitol street
McCREARY, Albertus. 1116 F street
McGEE, W J, Bureau of American Ethnology. 1901 Baltimore street
McGILL, Mary C. (Mary Cecilia). 1345 Corcoran street
McGRATH, John E. (John Edward), Coast Survey. 1016 Vt. ave
McGUIRE, F. B. (Frederick Bauders), Corcoran Art. Gal'y. 1333 Conn. ave
McKEAN, Fred. G. (Frederick George). 1220 New Hampshire avenue
McKEE, Thos. H. (Thomas Hudson), House of Reps. 7 Grant place
McKENNEY, Wm. A. (William Archer), 1405 G street. The Mendota
McKIM, Randolph H. (Randolph Harrison). 1621 K street
McLANAHAN, G. Wm. (George William). 1601 21 street
McLAUGHLIN, Dr Thomas N. (Thomas Notley). 1226 N street
McLEAN, N. E. L. (Nellie Ellis Louise), Dennison School. 913 French st
McMANUS, A. B. (Augustine Boas), Navy Department. 814 22 street
McNAIR, E. L. (Eugene Long), 1330 F st., (U. S. G. S.). 931 K street
McREYNOLDS, F. W. (Frederick Wilson), Fendall Bldg. 1437 Staughton st
McWILLIAM, Janet, Thomson School. 2142 K street
MACFARLAND, H. B. F. (Henry Brown Floyd), District bldg. 1816 F st
MADDOX, Samuel, 340 Indiana avenue. 1715 H street

MAGRUDER, John H. (John Holmes), 152 Conn. ave. 1843 S street
MALLETT, Miss Anna S. (Anna Smith). 1454 Rhode Island avenue
MANNING, Van. H. (Vannoy Hartrog), Geol. Survey. 3112 Q street
MARINDIN, Henry L. (Henry Louis), Coast Survey. Woodside, Md
MARQUEZ, Dr L. Cuerro. *Address unknonn.*
MARTIN, Artemas, Coast Survey Office. 915 N street
MARVIN, C. F. (Charles Frederick), Weather Bureau. 1404 Binney street
MASON, Mrs M. L. (Marie Louise). 45 B street SE
MATTHES, Francois E. (Francois Emile), Geol. Survey. The Varnum
MATTHES, Gerard H. (Gerard Hendrik), Geol. Survey. The Varnum
MATTINGLY, Wm. F. (William Francis), 435 7 street. 1616 H street
MAURO, Philip, 620 F street. 1616 22 street
MAY, Heber J., Washington Loan and Trust Co. 1414 21 street
MAYNARD, Geo. C. (George Colton), National Museum. 1407 15 street
MAYNARD, W. (Washburn), Treasury Department. The Portner
MAYO, Mrs C. L. (Cordelia Lucy). 906 14 street
MEIGS, Jno., Jr. (John). 325 2 street SE
MELVILLE, Geo. W. (George Wallace), Navy Department. 1720 H street
MERRIAM, C. Hart (Clinton Hart), Biological Survey. 1919 16 street
MERRIMAN, Geo. B. (George Benjamin), Naval Obs. 1122 Vermont ave
MÈSNY, A. B. Le (Arthur Bonamy Le Patourel), Navy Dept. The Mendota
MEYER, John H. F. 904 23 street
MICHENER, L. T. (Louis Theodore), Pacific Building. 1624 19 street
MIDDLETON, Arthur E. H. (Arthur Edward Henry), 515 11 st. 1333 15 st
MILES, Gen. Nelson A. (Nelson Appleton), U. S. A., War Dept. 1736 N st
MILLER, Mrs Almy. 941 H street
MILLER, E. H. (Eleazar Hutchinson). 1109 M street
MILLS, Anson. 2 Dupont circle
MIRICK, H. D. (Henry Dustin), 1417 New York avenue. 1302 N street
MITCHELL, Guy Elliott, Room 6, 1419 F street. The Randolph
MITCHELL, Hon. John L. 32 B street NE
MONDELL, Hon. Frank Wheeler, House of Reps. Dewey Hotel
MOORE, F. L. (Frederic Lawrence), 1403 F street. 1680 31 street
MOORE, Willis L. (Willis Luther), Weather Bureau. 1616 S street
MORRIS, M. F. (Martin Ferdinand), Court of Appeals, D. C. 1314 Mass. ave
MORSELL, Wm. F. (William F——), Geol. Survey. 1810 S street
MORTON, Geo L. (George Luton), Room 256, Patent Office. 1310 Q street
MOSES, Emma R. (Emma Richardson), Treas. Dept. 1404 Bacon street
MOSES, H. C. (Henry Clark), 1100 F street. 1322 19 street
MOSES, W. H. (William Henderson), 11 and F sts. 2129 Wyoming ave
MOSMAN, A. T. (Alonzo Tyler), Coast and Geod. Survey. 228 N. J ave. SE
MULLIN, Mrs N. R. (Nellie Ristine). 1340 21 street
MURCH, B. W. (Ben Wilton), Force School. 627 Florida avenue NE
MURLIN, A. E. (Arlington Elliott), Geol. Survey. 1911 2 street

MURRAY, B. P. (Bentley Philander), War Department. 10 3 street NE
MURRAY-AARON, Dr Eugene. 1839 Summit avenue, Lanier Heights
MUTCHLER, Hon. Howard, House of Representatives. Willard Hotel
MYERS, Mrs Mary H. (Mary Hewitt). The Portland
MYTINGER, C. (Caroline), Navy Department Library. 1012 13 street

NALLE, R. M. (Robert Mason), Room 512, P. O. Dept. 1016 15 street
NEEDHAM, Chas. W. (Charles Willis), Col. Law Bldg. 1428 Mass. ave
NELSON, E. W. (Edward William). Department of Agriculture
NESBIT, Leo H., Coast Survey. 227 New Jersey avenue SE
NEWCOMB, Simon. 1620 P street
NEWELL, F. H. (Frederick Haynes), Geol. Survey. 1829 Phelps place
NIBLACK, Lieut. Albert P. (Albert Parker), U. S. N. Navy Department
NIMMO, Joseph, Jr. 1831 F street
NOYES, Crosby S. (Crosby Stuart), Evening Star. Sligo, Md.
NOYES, Theo. W. (Theodore Williams), 1101 Pa. ave. 1730 N. H. ave

OBERHOLSER, Harry C. (Harry Church), Dept. Agric. 1505 Howard ave
O'BRIEN, Robert L. (Robert Lincoln), 1403 F st., Wyatt Bldg. 2504 19 st
OGDEN, H. G. (Herbert Gouverneur), Coast Survey. 1610 Riggs place
OLNEY, Edward B. (Edward Beekman), Gen. Land Office. 310 E street
OSGOOD, C. N. (Charles Nathan), 1317 F street. 1713 P street
OSGOOD, Wilfred H. (Wilfred Hudson), Dept. Agric. 925 Westminster st
O'TOOLE, Mary B. (Mary Byrne), Treasury Dept. 2424 Pa. avenue
OWEN, Fred. D. (Frederick Denison), War Department. 3 Grant place

PAGE, James, Hydrographic Office. 1708 H street
PAGE, Thomas Nelson, New Hampshire avenue and R street
PAINE, W. T. (Walter Taylor), General Land Office. 140 F street SE
PAINTER, Mrs U. H. (Linda Avery). 1825 13 street
PALMER, T. S. (Theodore Sherman), Dept. of Agriculture. 1604 13 st
PARKER, D. (Daingerfield). 1506 21 street
PARKER, E. Southard, 613 15 street. 1738 Connecticut avenue
PARKER, E. W. (Edward Wheeler), New York, N. Y. 1723 Riggs place
PARKER, Myron M. (Myron Melvin), 1418 F street. 1020 Vermont ave
PARKER, R. Wayne (Richard Wayne), Newark, N. J. 1501 Mass. ave
PARSONS, Francis H. (Francis Henry), Library of Cong. 210 1 street SE
PATTEN, J. D. (John Dewhurst), 720 15 street. 2212 R street
PATTERSON, Eliza T. (Mrs Albert M.). 20 Iowa circle
PATTERSON, Mrs Flora W. (Flora Wambaugh), Dept. Agric. The Albemarle
PATTERSON, Miss M. A. (Melvina A.). The Mendota, 20 st. and Kala. ave
PATTERSON, Miss M. E. (Marie E.) 1100 Vermont avenue
PAYNE, Jas. G. (James George), Court House. 2112 Massachusetts ave
PAYSON, L. E. (Lewis Edwin). 1229 Massachusetts avenue

PEABODY, W. F. (William Frederick), Coast Survey. 918 L street
PEALE, Dr A. C. (Albert Charles), National Museum. 605 12 street
PEARSON, R. A. (Raymond Allen), Dept. of Agriculture. The Clifton
PEELLE, Stanton J. (Stanton Judkins), Court of Claims. The Concord
PELLEW, Henry E. 1637 Massachusetts avenue
PENNELL, Mrs W. H. (Mrs William Henry). 420 C street SE
PENFIELD, Hon. W. L. (William Lorenzo), State Dept. Dewey Hotel
PERHAM, A. S. (Aurestus Sidney), Pension Bureau. 905 Westminster st
PERKINS, E. T., Jr. (Edmund Taylor). Geological Survey
PERKINS, Frank Walley, Coast and Geod. Survey. 1344 Vermont avenue
PERKINS, Geo. C. (George Clement). U. S. Senate
PERKINS, H. C. (Henry Cleveland). 1701 Connecticut avenue
PETERS, E. T. (Edward T.), Dept. of Agriculture. 131 E street
PETERS, Lt. Comdr. Geo. H. (George Henry), U. S. N. 1354 Columbia road
PETERS, Wm. J. (William John). Geological Survey
PFAU, Jas. A. (James A——), Coast and Geodetic Survey
PHILLIPS, W. F. R. (William Fowke Ravenel), Weather Bu. 1418 L st
PIERCE, Josiah, Jr., Atlantic Building, 928 F street. 1325 Mass. avenue
PILLING, J. W. (John Walter), 917 F street. 1301 Massachusetts avenue
PINCHOT, Gifford, 930 F street. 1615 Rhode Island avenue
PIPES, F. H. (Dr Felix Hughes), Pension Office. 437 Mass. avenue
PITTS, Geo. B. (George Bassett), 507 E street. 144 C street NE
PLANT, George H., Jr. 1429 New York avenue
PLATT, O. H. (Orville Hitchcock), U. S. Senate. The Arlington
PORTNER, Robert. 1104 Vermont avenue
POTTER, C. M. (Cyrus Montgomery), Post-Office Dept. 522 D street NE
POWELL, Mrs A. G. (Altha Gibbs). The Cairo, 1629 Q street
POWELL, Mrs Randolph (Diana Kearny). 1734 K street
PRATT, Electus A. (Electus A——). 1828 13 street
PREBLE, Edward A., Dept. of Agriculture. The Virginia, 2120 G street
PRESCOTT, Ben., Post-Office Department. 26 Grant place
PRESCOTT, Rev. Philip M. (Philip Maxwell). The Sherman, 15 and L sts
PREWITT, Dr G. T. (George Thompson), 511 10 street. 103 2 street NE
PRINDLE, Rear Admiral F. C., U. S. N. The Cairo
PROCTOR, Hon. Redfield, U. S. Senate. 1535 L street
PROUTY, C. A. (Charles Azro), Sun Bldg. The Portner, 15th and U sts
PULSIFER, Wm. H. (William Henry). The Grafton, 1139 Conn. avenue
PUTNAM, Herbert, Library of Congress. 1834 I street

RADCLIFFE, Wallace, N. Y. Ave. Presbyterian Church. 1200 K street
RALPH, Dr Wm. L. (William Legrange), National Museum. The Portner
RALSTON, Jackson H. (Jackson Harvey), Bond Bldg. Hyattsville, Md
RAMSAY, Wm. (William), 1221 F street. 1502 Kenesaw avenue
RAND, Pay Inspector Stephen, U. S. N. Ebbitt House

RANDALL, A—— E——. Congress Heights
RANKIN, J. E. (Jeremiah Eames), Howard Univ. University campus
RANKIN, John M. (John McClure), Atlantic Bldg. 1903 Kalorama ave
RAVENEL, W. de C. (William de Chastignier), Nat. Mus. 1611 Riggs st
RAYMOND, Prof. Geo. L. (George Lansing). 1810 N street
READURN, D. L. (De Witt Lee), Geol. Survey. 1807 G street
READ, Miss Jane. 3028 N street
REDWAY, Capt. George, General Land Office. 1328 Columbia road
REIFENRATH, Miss Minnie A. 717 10 street
REILLY, Philip K. (Philip Key). 2321 Pennsylvania avenue
REMEY, George C. (George Collier). 1312 21 street
REMP, Miss Lulu. 1726 5 street
RHEES, Wm. J. (William Jones), Smithsonian Inst. Spring and 14 ext
RICHARDS, Miss J. E. (Janet Elizabeth H——), Chevy Chase. 1319 Yale st
RICHARDS, J. K. (John Kelvey), Dept. of Justice. 1335 Conn. avenue
RICHARDS, W. A. (William Alford), General Land Office. 2455 18 street
RICHARDS, Wm. P. (William Pemberton). 309 Elm street
RICHARDSON, Alonzo B. (Alonzo Blair), Govt. Hospital for Insane.
RICHARDSON, Dr Charles W. (Charles Williamson). 1102 L street
RICHARDSON, F. A. (Francis A——). 1308 Vermont avenue
RITTER, Homer P. (Homer Peter), Coast Survey. U. S. and possessions
RIZER, H. C. (Henry Clay), Geol. Survey. 2568 University place
ROBERTS, Ellis H. (Ellis Henry), Office of Treas. U. S. 1313 Mass. ave
ROBERTS, Geo. E. (George Evan), Treas. Dept. 1806 N. H. avenue
ROBERTS, W. F. (William Florian), 730 15th street. 1318 Kenyon street
ROBERTSON, P. W. (Powhatan Wyndham). 2232 Q street
ROBINSON, Miss A. M. (Anna Mabel). 2004 35 street
ROBINSON, W. P. (William Pitt). 1739 17 street
ROELKER, C. R. (Charles Rafael), 702 17 street. 1434 Q street
ROESSLE, T. E. Arlington Hotel
ROGERS, Walter F. (Walter Forwood), 939 F street. 914 R. I. avenue
ROMERO, Señor Don José Mexican Legation
ROMEYN, Major Henry, U. S. A. 714 20 street
RUNYAN, E. G. (Elmer Gardner), Dept. of Agric. 300 R street NE
RUSSELL, Capt. A. H. (Andrew Howland), War Department.
RUTTER, Frank R. (Frank Roy), Dept. Agric. 429 N. Carey st., Balto., Md

SANDERS, L. M. (Louis Milton). 44 Q street NE
SANDERS, T. B. (Thomas Bradford). 2309 M street
SANGER, Alice B. (Alice Belle), P. O. Dept. 1029 Connecticut avenue
SARGENT, R. H. (Rufus Harvey), Geol. Survey. 1728 Columbia road
SAUNDERS, Wm. H. (William Henry), 1407 F st. 1308 Roanoke street
SAVARY, John. Cosmos Club
SAVILLE, J. H. (James Hamilton). 1420 17 street

SCHNEIDER, T. F. (Thomas Franklin), Bond Bldg. The Cairo, 1615 Q st
SCHOENBORN, William E. (William Ernest), Pat. Off. 1359 Harvard st
SCHUCHERT, Charles, National Museum. 1422 Staughton street
SCIDMORE, Eliza R. (Eliza Ruhamah). 1837 M street
SCOTT, Miss Fannie T. The Ebbitt House
SCOTT, James A. (James Alexander), Govt. Printing Off. 921 O street
SCOTT, W. O. N. (William Owen Nixon). 1011 Connecticut avenue
SEAMAN, Wm. H. (William Henry), Room 258, Pat. Office. 1424 11 street
SEDGLEY, Miss Isabel (Mary Isabel). 1779 Massachusetts avenue
SEVERENCE, Miss Bessie E. (Bessie Eva). 1121 14 street
SEYMOUR, H. A. (Henry Albert), 913 F street. 1337 Connecticut avenue
SEYMOUR, H. W. (Henry W——). 1708 R street
SHANDS, A. R. (Aurelius Rives). 1319 New York avenue
SHEA, N. H. (Nicholas H——), 632 Pennsylvania avenue. 1320 12 street
SHEAR, Cornelius L. (Cornelius Lott), Dept. Agric. Elm ave., Takoma Pk
SHIDY, L. P. (Leland Perry), Coast Survey. 1617 Marion street
SHOEMAKER, C. F. (Charles Frederick), Treasury Dept. 1303 Yale street
SIGSBEE, Capt. C. D. (Charles Dwight), Navy Dept. 1632 Riggs place
SILVERS, Miss Grace S. (Grace S——). 910 L street
SIMPSON, Horton, Hubbard School, 12 and Kenyon sts. 1758 Corcoran st
SIMPSON, Dr J. C., (John Crayke), Govt. Hosp. for Ins. St. Elizabeth's
SINCLAIR, C. H. (Cephas Hempstone), Coast Survey. 922 Farragut sq
SLATER, I. C. (Isaac Cooper). 404 New Jersey avenue
SLOANE, M. E. (Mersene Elon), Census Office. 1001 Mass. avenue NE
SMALL, J. H., Jr. (John Henry), 621 14 street. 1227 New York avenue
SMART, Charles, Surg. General's Office, War Dept. 2017 Hillyer place
SMILLIE, G. F. C., Bureau of Engraving and Printing. 1317 Yale street
SMITH, Francis H. 1418 F street
SMITH, Geo. Otis (George Otis), Geol. Survey. The Iowa, 13 and O sts
SMITH, Herman W. (Herman Wilson), Weather Bu. 1319 Lydecker ave
SMITH, J. Henry (James Henry). 1619 17 street
SMITH, Lincoln A. 1527 O street
SMITH, Middleton, Department of Agric. 1616 19 street
SMITH, Odell S. (Odell Seymour), Central National Bank. 1336 U street
SMITH, Mrs S. T. (Sterling Tuft). 1626 19 street
SMITH, Th. W. (Thomas Wilson). 1 st. and Ind. ave. 616 East Cap. st
SNOW, Alpheus H. (Alpheus Henry). 1417 Massachusetts avenue
SNOW, Charles C. (Charles Carleton). 1737 9 street
SNOWDEN, Lt. Thomas. 1101 24 street
SOMERS, Mrs Elizabeth J——. 1100 M street
SOMMER, Ernest J. (Ernest Julius), Coast Survey. 1227 O street
SOUTHER, John K. (John Kerfoot). 1806 New Hampshire avenue
SOUTHERLAND, W. H. H. (William Henry Hudson), Hydrographic Office
SOWERS, Dr Z. T. (Zachariah Turner). 1320 New York avenue

SPANHOOFD, A. W. (Arnold Werner), Central High School. 1636 16 st
SPEAR, Ellis, 1003 F street. The Manhattan, 1501 Park street
SPENCER, Jas. W. (James William), Geol. Survey. 906 14 street
SPENCER, Mrs Sara A. Spencerian College, 9 and D streets
SPERRY, Hon. N. D. (Nehemiah Day), House Reps. The Buckingham
SPOFFORD, A. R. (Ainsworth Rand), Lib. of Congress. 1334 Mass. ave
SQUIRE, Capt. G. O. (George Owen), War Dept. Army and Navy Club
STAFFORD, Rev. D. J. (Dennis J——). 619 10 street
STANLEY-BROWN, J. (Joseph), 120 B'dway, N. Y. city. 1318 Mass. ave
STARKWEATHER, Geo. B. (George Briggs), Forest Lk. Cem. Bowen road
STAVELY, Dr Albert L. (Albert Livingston). 1234 14 street
STEIN, Robert. Geol. Survey
STELLWAGEN, Edward J. (Edward James), 1414 F st. Washington Hts
STEPHENS, John J. (John James), Winder Bldg., 17 and F sts. 1812 13 st
STERNBERG, Geo. M. (George Miller), U. S. A., War Dept. 1440 M street
STETSON, Frank O. (Frank Owen), Weather Bureau. 1217 Kenesaw ave
STEVENS, F. C. (Frederick Charles), 1415 G street. 1628 16 street
STEWART, Alonzo H. (Alonzo Hopkins), U. S. Senate. 204 4 street SE
STEWART, Joseph, Post-Office Department. 1540 Howard avenue
STOCKING, Mrs P. M. (Patty Miller), Room 4, Int. Dept. The Westover
STOEVER, Frank M. (Frank Melancthon), Navy Dept. 2451 18 street
STOFER, Alfred J. 501 14 street
STOKES, H. N. (Henry Newlin), Geol. Survey. 3102 U street
STONE, I. S. (Isaac Scott), 1449 R. I. avenue. 1618 R. I. avenue
STRANAHAN, Wm. (William), Geol. Survey. 11½ Grant place
STRIDER, Mrs L. C. (Luke Cheney). 1450 Rhode Island avenue
STRONG, Frank, Department of Justice. The Savoy, 2804 14 street
STÜHRMAN, A. W. (Augustus Wesley). 601 I street
STURTEVANT, Mrs J. A. B. (Jane A—— B——). 1453 Howard avenue
SUGENHEIMER, S. (Salomon). 1142 7 street
SUMMERS, Milo C. (Milo Colburn), Surg. Gen. Off., War Dept. 314 7 st. NE
SUTTON, Frank, Geol. Survey. 25 Lafayette place
SWINGLE, W. T. (Walter Tennyson), Dept. Agriculture. 1410 Q street

TALBOTT, Dr Robert W. (Robert W——). 700 14 street
TANNER, Mrs M. L. (Mero L——). 1416 N street
TANNER, Z. L. (Zera Luther). The Cairo
TAPLIN, Mrs Horatio N. (Horatio Nelson). 1538 I street
TAYLOR, H. W. (Henry Walton), House of Reps. 100 5 street NE
TAYLOR, James K. (James Knox), Treasury Dept. The Portland
TAYLOR, N. R. (Nathaniel Ratcliffe), 2222 Post-Office st. 1426 O street
TAYLOR, Wm. A. (William Alton), Dept. of Agric. 55 Q street NE
THAYER, Rufus H. (Rufus Hildreth), 930 F street. 806 17 street
THOMBS, Mrs A. L. S. (Adelia L—— S——). 1324 Massachusetts avenue

THOMPSON, Prof. A. H. (Almon Harris) Geol. Survey. 1729 12 street
THOMPSON, Mrs John W. 1419 I street
THOMPSON, Miss Mary Ida. 1539 I street
THOMPSON, W. B. (William Baker), 1419 F street. 1621 S street
THURSTON, Ernest L. (Ernest Lawton), Col. Univ. 1508 Kenesaw ave
TISDEL, W. P. (Willard Parker). 1746 Q street
TITTMANN, O. H. (Otto Hilgard), Coast Survey. 1624 Riggs place
TOBEY, George E. (George E——). 1221 K street
TORBERT, John B. (John Bryant), Post-Office Dept. 111 C street SE.
TOTTEN, G. O., Jr. (George Oakley). 801 19 street
TOWSLEY, Orson V. (Orson V——). 1905 Kalorama avenue
TRAIN, Miss Alice Brown. The Olympia
TRIEPEL, Mrs Emma M. V. (Emma Matthews Vaughan), Treas. Dept. 1731 F street.
TRIMBLE, Matthew, District Building. 1320 Rhode Island avenue
TRUE, Dr A. C. (Alfred Charles), Dept. of Agric. 1604 17 street
TRUESDELL, Geo. (George), 1403 F street. 19 street and Columbia road
TULLOCH, Mrs M. B. (Miranda Barney). 121 B street SE
TURK, W. A. (William Armstrong), 1300 Pa. ave. 2026 Columbia road
TURNER, Miss Edith G. (Edith G——), Post-Office Dept. 414 B streetNE.
TWEEDY, Frank, Geol. Survey. 3416 13 street
TYLER, Richard K. (Richard Knickerbocker), 1307 F st. 1753 N street

ULKE, Julius, Jr., Post-Office Department. 1427 U street
URQUHART, Chas. F. (Charles Fox), Geol. Survey. Lanier Heights

VAN RENSSELAER, John. 2 Thomas circle
VAN REYPEN, W. K. (William Knickerbocker). 1021 15 street
VAN WICKLE, W. P. (William Perrine), 1225 Penna. ave. 1757 Q street
VINAL, W. Irving (Washington Irving), Coast Survey. 1106 E. Cap. st
VINCENT, Gen. Thomas N. (Thomas Norris). 1221 N street
VOLLANT, Gregory de, Russian Embassy. 1829 I street

WAINWRIGHT, D. B. (Dallas Bache), Coast Survey. 1409 Chapin street
WAITE, Miss Mary F. (Mary Frances). The Edwards, 816 15 street
WALCOTT, Chas. D. (Charles Doolittle), Geol. Sur., 1330 F st. 2117 S st
WALKER, A. M. (Albert Mynard), Geol. Survey. 1808 G street
WALKER, Capt. Kenzie W. (Kenzie Wallace), U. S. A. Care Adjt. Gen'l
WALKER, William H. (William H——), 1006 F street. The Concord
WALLIS, Wm. J. (William James), Eastern High School. 647 E. Cap. st
WALPOLE, F. A. (Frederick Andrews), Dept. Agric. 1834 Kalorama ave
WALSH, Helen I. (Helen Ivey), Johnson Sch., Mt P. 1261 Kenesaw ave
WALSH, Thos. F. (Thomas Francis), 1420 N. Y. ave. 2020 Mass. ave
WARD, Miss Eliza Titus. 5 Grant place

WARD, Mrs Fannie B. (Fannie B——). 1111 Massachusetts avenue
WARD, H. P. (Hiram P——). The Hamilton, 14 and K streets
WARDER, Mrs R. B. (Gulielma Darland). Howard University
WARMAN, P. C. (Philip Creveling), Geol. Survey, 1330 F st. 3345 16 st
WARNER, Brainard H. (Brainard Henry), 916 F st. 2100 Mass. avenue
WATERS, Dr W. E. (William Elkanah), U. S. A. The Chapin, 1415 Chapin st
WATSON, J. A. (James Angus), 918 F street. 1454 Howard avenue
WEBB, H. Randall (Harry Randall), 416–418 5 street. 727 19 street
WEBB, Capt. Walter D. (Walter D——). War Dept.
WEBER, Geo. W. (George W——), 1309 F street. 210 E street
WEBSTER, Daniel, Genl. Land Office. 3437 Holmead avenue
WEBSTER, N. E., Jr. (Norman Edward), P. O. Dept. 1443 Sheridan ave
WEILER, Ferd. (Ferdinand), Treas. Dept. 1316 V street
WEINRICH, Wm., Jr. (William). Coast Survey
WELCH, Geo. B. (George Bramwell), 1344 G st. 2011 Wyoming ave
WELKER, P. A. (Philip A.), Comdg. Str. Bache. Coast Survey
WELLMAN, Walter, 1413 G street. 1409 21 street
WELLS, Henry, 1410 G street. The Richmond, 17 and H streets
WELLS, S. W. (Stuart Wilder), 1325 14 street. 1347 Q street
WESTINGHOUSE, George. Dupont circle
WESTINGHOUSE, George, Jr. Dupont circle
WESTINGHOUSE, Mrs George. Dupont circle
WETMORE, Geo. Peabody (George Peabody), U. S. Senate. 1609 K street
WHEELER, H. W. (Henry Weston), Treas. Dept. 212 Randolph st. NE
WHELPLEY, J. D. (James Davenport), 1417 G street. 2118 Conn. ave
WHITE, Miss Elizabeth Walker. 1615 New Hampshire avenue
WHITE, Fletcher, Pension Office. 425.4 street
WHITE, Henry, 1231 G street. 2568 University place
WHITE, J. L. (James Lyall). 3419 Brown street
WHITE, Jno. H. (John Howard). 2111 Bancroft place
WHITE, Mabel L. (Mabel Louise), Treas. Dept. 1401 Massachusetts ave
WHITING, Harry C. (Harry Carlyle), Navy Dept. 1919 G street
WHITTEMORE, W. C. (William Clark). 1526 New Hampshire avenue
WHITTLESEY, E. (Eliphalet), 1429 New York avenue. 8 Iowa circle
WHITTLESEY, Geo. P. (George Patten), 902 F st. 1430 Staughton street
WIGHT, Hon. John B. (John Brewer), 1312 F street. 1767 Q street
WILCOX, Mrs Helen M. (Helen Mary Cleveland). The Arlington
WILCOX, Walter D. (Walter Dwight). 1526 New Hampshire avenue
WILKINSON, Dr A. G. (Ahab George), Patent Office. 1526 K street
WILKES, Miss Jane. 814 Connecticut avenue
WILKINS, Hon. Beriah, Washington *Post*. The Grafton, Conn. ave. near K street.
WILLARD, Henry A. (Henry Augustus), 1416 F street. 1333 K street
WILLARD, Joseph E. Willard Hotel, Pa. avenue and 14 street

WILLCOX, Walter F. (Walter Francis), Census Office. Cosmos Club
WLLIAMS, Henry E. (Henry Eugene), Weather Bureau. The Cameron
WILLIAMS, Maj. L. P. (Leander Perry). Supreme Court
WILLIAMS, Miss Mary E. (Mary Evelyn), Dept. Agric. The Litchfield
WILLIAMS, Richard P. (Richard Pardee), 226 Indiana ave. 219 C street
WILLIS, Bailey, 1330 F street. 2115 Bancroft place
WILSON, Miss Alisan. The Lenox, L street near 15 street
WILSON, H. M. (Herbert Michael), Geol. Survey, 1330 F st. 1706 21 st
WILSON, J. F. (J—— F——). 633 East Capitol street
WILSON, John M. (John Moulder), U. S. A. 1773 Massachusetts avenue
WILSON, Miss Laura A. (Laura Augusta), Census Office. 1446 R. I. ave
WILSON, Nathaniel, 624 F street. 912 17 street
WILSON, Thomas, National Museum. 1218 Connecticut avenue
WINES, Fred. H. (Frederick Howard), Census Office. 1446 Staughton st
WINSTON, Isaac, Coast Survey. 1325 Corcoran street
WINTER, M. A. (Mahlon Alpheus), 339 Penna. avenue. 14 S street
WINTERHALTER, Lieut. A. G. (A—— G——). Navy Dept.
WINTERS, Louis, 24 and M streets, Weather Bur. 132 C street SE
WOLF, Simon, 926 F street. 1756 Q street
WOOD, D. W. (David Wesley). The Albany, cor. 17 and H streets
WOOD, Miss Hattie P. (Hattie Patience). 1301 K street
WOOD, Brig. Gen. Leonard, U. S. A., 1812 H street. Metropolitan Club
WOODHULL, Maxwell Van Zandt. 2033 G street
WOODWARD, S. W. (Samuel W——), 11 and F sts. 2015 Wyoming ave
WOODWARD, Thomas P. (Thomas Pursell), 507 E street. 66 M street
WOODWORTH, M. (Milton), Treasury Dept. 1424 S street
WOOSTER, Walter M. (Walter Mallery), Interior Dept. 1449 Meridian st
WORKMAN, Henry C. (Henry Charles), Patent Office. 1326 Kenesaw ave
WORTHINGTON, A. S. (Augustus Storrs), 416 5 st. 2015 Mass. avenue
WREN, H. B. (Harry Bertrand), Weather Bur., 24 and M sts. 912 23 st
WRIGHT, Carroll D. (Carroll Davidson), 1429 N.Y. ave. 1345 Vermont ave
WRIGHT, Miss Elizabeth. 2434 Pennsylvania avenue
WRIGHT, Hallie L. (Hallie Lowndes). 332 Indiana avenue
WÜRDEMANN, Frank G. (Frank Gustave), Coast Sur. 124 Mass. ave. NE
WÜRDEMANN, J. V. (John Vanderbilt), Lib. of Cong. 124 Mass. ave. NE
WYCKOFF, Harry, 511 10 street. 1308 Yale street
WYMAN, Walter, 3 B street SE. The Richmond, 801 17 street

YOUNG, Jno. M. (John McMurtrie), 1110 Pa. ave. The Hawarden, 1419 R st

XANDER, Henry. 909 7 street

ZELENOY, A. (Alexander), Russian Embassy. 1829 I street

FLORIDA

BULL, Cmdr. J. H. (James Henry), U. S. N., Light-house Inspector, 7 District, Key West

KENNEDY, J. A., School for Deaf, Jacksonville

MACGONIGLE, Rev. Jno. N. (John Nowry), Memorial Presbyterian Church. The Manse, St Augustine

MEMMINGER, C. G., Bartow

GEORGIA

BOYER, H. B. (Harry Bright), U. S. Weather Bureau, P. O. Building. 225 Taylor street, East Savannah

HALL, B. M. (Benjamin Mortimer), 409–11–13 Temple court. 190 Forest avenue, Atlanta

HANNA, H. M. (Howard Melville), 53 River street, Cleveland Ohio. Thomasville

RUSSELL-HOWLAND, H. F. (H—— F——), Allatoona

MARBURY, John B. (John Bayne), Room 1410 Empire Building, cor. Broad and Marietta streets. 21 Garfield place, Atlanta.

NORTHEN, W. J. (William Jonathan), 407 Equitable building. Hotel Majestic, Peachtree street, Atlanta

WEEKS, J. R. (John Rockwell), Government Building, cor. 3 and Mulberry streets. 415 New street, Macon

IDAHO

BLANDFORD, S. M. (Samuel Mudd), 910½ Main st. 508 13 street, Boise

DILS, N. S. (Nathan Shirley), Caldwell

FOSTER, Dr Richard, Weiser

PERRINS, I. B. (Ira Burton), Blue Lakes

SHELBY, P. P. (Peter Paul), Weiser

TAYLOR, Dr J. M. (J—— M——), Boise

WALDRON, J. W. (Joseph Winfield), Shoshone

WILEY, A. J. (Andrew Jackson), 320 N. 7 street, Boise

ILLINOIS

ALBRECHT, F. J. (Franklin Jacob), 315–321 Wabash avenue. 209 Ashland Boulevard, Chicago

ANDREWS, Dr E. Wyllys (Edward Wyllys), 100 State street. 2525 Prairie avenue, Chicago

ASHLEY, Osborn, Brown's Hotel, Chicago

ATWOOD, Wallace W. (Wallace Walter), University of Chicago. 5450 Ridgewood Court, Chicago

AYER, Edward Everett, Old Colony Building, 84 Van Buren street. 1 Bank street, Chicago

BABER, Zonia, School of Education, University of Chicago. 5623 Madison avenue, Chicago

BARRETT, R. L. (Robert Le Moyne), London City and Midland Bank, Threadneedle street, London, Eng. 109 Lake Shore Drive, Chicago

BENGSTON, C. A. (Charles Alfred), 315 Wabash avenue. 1097 Carmen avenue, Chicago

BLUNT, S. E. (Stanhope English), Rock Island Arsenal

BOWER, R. A. (Robert A——), 166 Adams st. 822 N. Park ave., Chicago

BRACKETT, Col. William S. (William S——), 103 Randolph ave., Peoria

BRAYTON, Geo. A. (George A——), 6319 Yale avenue, Chicago

BROWN, John, Drovers' National Bank. 3426 Michigan ave., Chicago

BUTTON, W. J. (William Jesse), 378 Wabash avenue. 5648 Madison avenue, Chicago

CASWELL, Dr S. J. (Stephen Jesse), 323 West State street. 616 George street, Rockford

CHALMERS, W. J. (W—— J——), 12 st. and Washtenaw avenue, Chicago

CHAMBERLIN, T. C. (Thomas Chrowder), University of Chicago. Hyde Park Hotel, Chicago.

COOLEY, E. L. (Ernest L——), 1010 Security Bldg., 188 Madison street, Chicago

COOLEY, Lyman E. (Lyman E——), C. E., Chicago

COX, Henry J. (Henry Joseph),Weather Bureau. 6908 Vernon avenue, Chicago

CRANE, Charles R. (Charles Richard), 10 North Jefferson street. 2559 Michigan avenue, Chicago

DORSEY, Geo. A. (George Amos), Field Columbian Museum, Chicago

ECKELS, Hon. James H. (James H——), Chicago

ELLIOT, D. G. (Daniel Giraud), Field Columbian Museum, Chicago

EVANS, Lynden (Lynden Edwin Ryder), 107 Dearborn street. 300 Schiller street, Chicago

FAVILL, Henry B. (Henry Baird), 618-100 State street. 138 Lincoln Park Boulevard, Chicago

GALT, Mrs Isabella A. (Isabella A——), 550 Dearborn avenue, Chicago

GRANT, U. S. (Ulysses Sherman), Northwestern University. 2123 Sherman avenue, Evanston

GRIMES, J. Stanley (James Stanley), 1422 Wesley avenue, Evanston

HAGAR, John M. (John McKim), The Rookery, 217 La Salle street. 5053 Washington avenue, Chicago

HARPER, William R. (William Rainey), The University of Chicago. 59 street and Lexington avenue, Chicago

HATHAWAY, F. B. (F—— B——), Rochelle

HILDEBRAND, Wm. R. (William Richard), 97 Washington street. 1509 Wolfram street, Chicago

HOLBROOK, Florence, Forestville School, Chicago
HOWE, Edw. G. (Edward Gardnier), 1004 S. Mathews avenue, Urbana
HUBBARD, H. M. (Henry Mascarene), 72 East Lake street. 205 Goethe street, Chicago
HUNT, Robert W. (Robert Woolston), 1121 The Rookery. 614 East Division street, Chicago
HUMPHREYS, Henry H. (Henry Hollingsworth), U. S. A., Highland Park, Lake county
IDDINGS, Joseph P. (Joseph Paxson), University of Chicago. 5730 Woodlawn avenue, Chicago
JACOBSON, John, 362 West Erie street, Chicago
JOHNSON, Miss Isabel (Ruth Isabel), 215 East 42 street, Chicago
KENNA, E. D. (Edward Dudley), 77 Jackson st. 46 Astor st., Chicago
LORENZ, Frederick A. (Frederick Alexander), 315–321 Wabash avenue. 5733 Kimbark avenue, Chicago
LOWE, John W. (John Williamson), 175 Dearborn street. Union Club, 12 Washington place, Chicago
LOWRY, C. D. (C—— D——), Ass't Supt., Board of Education, Chicago
MCCOWEN, Mary (Mary Taylor), Bd. of Educat'n. 6550 Yale ave., Chicago
MANN, C. E. (C—— E——), St Charles
MAXSON, O. P. (Orrin Prescott), 323 West street, Waukegan
MEAD, Daniel W. (Daniel Webster), 605 First National Bank Building. 234 South Park avenue, Austin Post-Office, Chicago
MURRELL, Victor A. G. (Victor Alphonso George), 804 Ashland block. 6757 Parnell street, Chicago
OLNEY, Chas. F. (Charles F——), 148 Ohio street, Chicago
PATTEN, Henry J. (Henry J——), Rooms 51–52, Board of Trade. 1831 Chicago avenue, Evanston
PEET, Charles Emerson, 5817 Madison avenue, Chicago
PERRY, Thomas O. (Thomas Osborne), 1025 Park avenue, Chicago
PHILLIPS, Dr W. A. (W—— A——), 1711 Hinman avenue, Evanston
PIEPHO, A. (August Ernst), 6 Madison st. 42 North Grove pl., Chicago
PRAEGER, Wm. E. (William Emilius), Township High School. 316 South Park street, Streator
RICKER, N. Clifford (Nathan Clifford), Engineering Hall, University of Illinois. 612 West Green street, Urbana
RIDGLEY, D. C. (Douglas Clay), Homan avenue and 13 street. 5945 Ontario street, Chicago
RUNNELLS, Mrs John S. (John S——), 593 N. State street, Chicago
SALISBURY, Rollin D. (Rollin D——), University of Chicago. 5730 Woodlawn avenue, Chicago
SCHOBINGER, John J. (John James), 4670 Lake avenue, Chicago. Morgan Park
SEDDON, James A. (James A——), 906 Security Building, Chicago

SKIFF, Frederick J. V. (Frederick James Volney), Field Columbian Museum, Chicago

SMITH, Mrs Emmeline L. (Emmeline Lukens), 19 Janssen ave., Chicago

SMITH, Syl. T. (Sylvester Tunnicliff), Chicago Club, 200 Michigan avenue. 4717 Kenwood avenue

SNOW, Herman W. (Herman Walderford), Bank of Sheldon. 438 East Court street, Kankakee

SPRUIT, C. (Cornelius), Illinois School for Deaf. 1106 La Fayette avenue, Jacksonville

STONE, George Frederick, Board of Trade, Chicago

UDDEN, J. A. (Johan August), Augustana College, cor. 38 street and 7 avenue. 1000 38 street, Rock Island

ULLMANN, Wm. B. (William Bell), Corner 2 and Park streets, St Charles

VAN SCHAICK, Miss Ellen, Highland Park

WAGNER, Col. Arthur L. (Arthur Lockwood), A. A. G., U. S. A., Headquarters Department of the Lakes, Chicago

WALZ, F. J. (Ferdinand Jackson), U. S. Weather Bureau, Auditorium Tower. 916 Pullman Bldg., cor. Adams st. and Mich. ave., Chicago

WEST, Frederick T. (Frederick Thomas), 157–159 La Salle street. 613 Division street, Chicago

WHITE, Trumbull, 1458 Wilson avenue, Chicago

WILCOX, Timothy E. (Timothy Erastus), U. S. A., Pullman Bldg., Chicago

WILKINS, Prof. George S., Auditorium Building, Chicago

WILSON, William J. (William Joseph), 1621 Masonic Temple. 5822 Calumet avenue, Chicago

WITHEROW, Mrs T. F., 300 Schiller street, Chicago

WOOD, L. H. (Leslie Henry), 5747 Drexel avenue, Hyde Park, Chicago

INDIANA

BUTLER, Amos W. (Amos William), Room 52, State House, Indianapolis. 52 Downey avenue, Irvington

BLYTHE, W. T. (William Thomas), 41 South Pennsylvania street. The Meridian, 1 Michigan street, Indianapolis

CARR, J. W. (John Wesley), High School Bldg. 439 W. 11 st., Anderson

COOPER, Chas. M. (Charles Marion), 24½ East Washington street. The St Clair, 109 West St Clair street, Indianapolis

CULBERTSON, Glenn, Hanover College, Hanover

DUNCAN, W. C. (Washington Columbus), 408 Washington street. 1104 Hutchins avenue, Columbus

EIGENMANN, Carl H. (Carl H——), Indiana University. 630 Atwater avenue, Bloomington

EVANS, S. G. (S—— G——), 211 Main street, Evansville

HUBBARD, Lucius, Room 8, Oliver Opera House. 117 East Madison street, South Bend

JOHNSON, Richard O. (Richard Otto), Supt. State School for the Deaf, Indianapolis
MARSTERS, V. F. (V—— F——), Bloomington
MEES, C. L. (C—— L——), Terra Haute
SWEENEY, Zachary T. (Zachary T——), Commissioner of Fisheries and Game for Indiana, Columbus
TAYLOR, F. B. (Frank Bursley), 2905 Fairfield avenue, Fort Wayne
WALDO, C. A. (Clarence Abiathar), Purdue University. 113 S. 9 street, La Fayette

INDIAN TERRITORY

BOND, R. I. (R—— I——), Hartshorne
HARPER, Dr R. H. (Robert Henry), Afton

IOWA

ANDERSON, F. P. (F—— P——), Epworth
BARNES, Rev Frank G. (Frank G——), Epworth Seminary, Epworth
BEYER, S. W. (Samuel Walker), Iowa State College, Ames
CALVIN, Samuel, 522 N. Clinton street, Iowa City
CHARLES, Jno. H. (John Herr), 721 Pierce street, Sioux City
CHITTENDEN, H. M. (Hiram Martin), 511 13 street, Sioux City
COWNIE, John, The Capitol. 831 West 4 street, Des Moines
HEALY, G. B., Sioux City
HOYT, Dr Frank C., Hospital for Insane. Mt. Pleasant
KNUDSEN, Grace W. (Grace Whiting), State Normal School. 521 Clay street, Cedar Falls
LARRABEE, William, Clermont
LEONARD, A. G. (Arthur Gray), Iowa Geological Survey. 1522 9 street, Des Moines
NORTON, W. M. (William Harmon), Mt Vernon
POWERS, H. C. (Henry Clay), Hedge's Station, Sioux City
PURSSELL, U. G. (Ulysses G——), Government Building. 215 9 street, Sioux City
PUTNAM, W. C. (William Clement), 213 Main street. 2013 Brady street, Davenport
RUETE, Otto M. (Otto Moyer), 1 S. Locust st. 721 Bluff st., Dubuque
SAGE, John R. (John Randall), U. S. Weather Bureau. 1415 24 street, Des Moines
SHERIER, Julius M. (Julius Mason), Post-Office Building. Kemper Hall, cor. Main and 11 streets, Davenport
SHIMEK, Prof. B., Iowa City
STEVENS, W. M. (William Myron), 1911 Pierce street, Sioux City

KANSAS

ANDERSON, T. J. (Thomas Jefferson), 627 Kansas avenue. 215 Clay street, Topeka

AUSTIN, Edwin A. (Edwin Atlee), 107 East 6 ave. 913 Clay st., Topeka

GRIMSLEY, G. P. (George Perry), Washburn College, Topeka

HAWORTH, Erasmus, University of Kansas. 1503 Massachusetts street, Lawrence

HEDGE, H. E., Lakin

JENNINGS, T. B. (Charles Augustus Thorp Buttolph), U. S. Weather Bureau Office. 324 Willow avenue, Topeka

KELLOGG, R. S. (Royal Shaw), Tucson, Arizona, Agent of Bureau of Forestry. Fay, Russell County

MARTIN, Geo. W. (George Washington), State Capitol. 1409 Topeka avenue, Topeka

MENKE, D. R. (David Ramaley), Main street, Garden City

MUNGER, Geo. M. (George Merrick), 6 Madison st., Chicago, Ill. Eureka

ROBINSON, A. A. (Albert Alonzo), 422 Olive street, St Louis, Mo. 900 Tyler street, Topeka

RUSSELL, W. G. (William Gardner), Russell

SMYTH, B. B. (Bernard Bryan), State Capitol. 309 W. 5 street, Topeka

WATSON, Carrie M. (Carrie M——), University of Kansas, Lawrence

WILDER, E. (Edward), Jackson and 9 sts. 1021 Harrison st., Topeka

KENTUCKY

BROWNELL, H. G. (Harry Gault), 1900 Brook street. 106 W. Oak street, Louisville

BURK, W. E. (William Emmett), Male High School. 1036 Highland avenue, Louisville

COOK, Fred W. (Fred W——), 108 E. Kentucky street, Louisville

COX, L. M. (L—— M——), Engr. and Arch. Club, Louisville

GRINSTEAD, W. C. (William Campbell), corner Maple and Walnut sts., Danville

MARK, E. H. (Edgar Huston), 514 West Walnut street. The Rossmore, 748–752 4 avenue, Louisville

ROGERS, Augustus, Kentucky School for the Deaf, Danville

WRIGHT, Miss Carrie M. (Caroline McLean), Semple Collegiate School, 1225–1227 4 avenue. 918 1 street, Louisville

LOUISIANA

DERBY, G. McC. (George McClellan), 3232 Prytania street. 14 Audubon place, New Orleans

KNAPP, S. A. (Seaman Ashel), 527 Pujo street, Lake Charles

MORGAN, Prof. H. A. (H—— A——), Baton Rouge
ROSE, E. C. (Emerson Clarence), Leland University, 7013 St Charles avenue, New Orleans
SCOFIELD, Miss Margaret, 304 McNeil street, Shreveport

MAINE

BERRY, Alford H. (Alford H——), Portland
BOTH, Adolph C. (Adolph C——), U. S. Engineer's Office. Portland
BAYLEY, W. S. (William Shirley), Colby College, Waterville
BURROWES, Francis S. (Francis S——), U. S. Engineer's Office, Portland
CARY, Austin, Brunswick
CLEAVES, Henry B. (Henry Bradstreet), 120 Exchange street. Congress Square Hotel, 579 Congress street, Portland
DOW, Hon. Fred. N., 12 Monument square, Portland
FESSENDEN, Francis, 51½ Exchange street. 73 Deering street, Portland
FOBES, Charles S. (Charles Scott), 106–112 Commercial street. 72 Emery street, Portland
HILL, W. Scott (Winfield Scott), 154 State street, Augusta
HOYT, Chas. C. (Charles Chamberlain), St Louis near Boyle avenue. "Beachmere," Ogunquit, York county
LEE, Leslie A. (Leslie Alexander), Bowdoin College. 3 Bath street, Brunswick
MANNING, Prentice C. (P—— C——), 129–131 Middle street. Cumberland Mills, Main street, box 1115, Portland
MERRILL, Fullerton, 19 State street. 166 Union street, Bangor
MORTON, Eliza H. (Eliza Happy), 1377 Washington avenue. "The Cedars," 365 Allen avenue, North Deering
O'DONOGHUE, D. O'C. (Daniel O'Connell), 537 Congress street. 75 Emery street, Portland
PAYSON, C. H. (Charles Henry), 32 Exchange st. 166 Vaughan st., Portland
PAYSON, Geo. S. (George Shipman), 32 Exchange street. 30 Mellen street, Portland
PRENTISS, Henry M. (Henry Mellen), 52 Broad st. 18 Jefferson st., Bangor
ROBIE, Frederick, First National Bank, 57 Exchange street. Portland
SCHOFIELD, Lieut. Gen. J. M. (John McAllister), U. S. A., War Department, Washington. Bar Harbor in summer, St Augustine, Fla., in winter
WEYMOUTH, F. E., Orono
WHITE, S. T. (Samuel Thompson), West Paris

MARYLAND

AMES, J. S. (Joseph Sweetman), Johns Hopkins University. 225 W. Preston street, Baltimore

BERGLAND, Maj. Eric, U. S. A., Central Savings Bank Building. 1116 N. Charles street, Baltimore

CHILDS, T. S., D. D. (Thomas Spencer), Rectory, Chevy Chase

CATE, Isaac M. (Isaac Martin), Abbottstown, Baltimore

CLARK, Wm. Bullock (William Bullock), Johns Hopkins University. 8 E. Read street, Baltimore

COHEN, Mendes, 825 N. Charles street, Baltimore

DOANE, C. F. (Charles Francis), College Park. Hyattsville

DODGE, O. G. (Omenzo George), Naval Academy, Annapolis

ELBREY, Major F. W. (Frederick William), U. S. A. Sandy Spring, Montgomery County

ELLIS, Charles Manly, Trinity Corners. Elkton

EVANS, Lt. Col. A. W. (Andrew Wallace), U. S. N., 400 Main street, Elkton

GOUCHER, Jno. F. (John Franklin), Woman's College. 2313 St. Paul street, Baltimore

HALSTED, Dr Wm. S, 1201 Eutaw Place, Baltimore

HARLAN, Herbert, 516 Cathedral street, Baltimore

HARLAN, Homer B. (Homer Blakeslee), Office Chief of Engineers, U. S. Army. Washington Grove

HARLEY, Prof. A. G. (Albert Gallatin), Montgomery County. Rockville

HAYNES, D. F. (David Francis), Chesapeake Pottery, Baltimore. 1715 Park avenue, Baltimore

HEBDEN, Edwin, Eastern avenue and Patuxent street, Baltimore. 731 Colorado avenue, Tuxedo Park, Baltimore county

HENDRICKSON, Prof. W. W., Naval Academy, Annapolis

HOEN, A. B. (Albert Berthold), Hoen Building, Baltimore

HURD, Henry M. (Henry Mills), Johns Hopkins Hospital. 599–601 North Broadway, Baltimore

JOHANNSEN, Albert (Albert Heinrich von Kraghlungsfeldt), Johns Hopkins University, Baltimore

KERR, Mrs Alice M. (Alice Maud), Frederick road, opp. Hilton avenue. "Cherokee," Catonsville

KELLY, Howard Atwood, 1418 Eutaw place. 1406 Eutaw place, Baltimore

LEHMANN, G. W. (Gustavus William), 32 South street, Baltimore. "The Terraces," Mt Washington, Baltimore county

LORD, Eleanor L. (Eleanor Louisa), Woman's College of Baltimore. 2500 St Paul street, Baltimore

MALONE, Miss M. J. (M—— J——), Hyattsville

MILLER, Benj. L. (Benjamin Leroy), Johns Hopkins University, Baltimore

MONTAGUE, C. S. (Calvin Swartz), Garrett Park

MOORE, Jos. T., Sandy Spring, Montgomery county

MÜLLER, Louis, 47 Chamber of Commerce, Baltimore. Baltimore county

MURRAY, Nicholas, Johns Hopkins University. University Club, Baltimore

NELSON, Thos. (Thomas), 122 Prince George street, Annapolis
O'HARA, Rev. Wm. L. (William L——), Mt. St. Mary's P. O.
PRETTYMAN, E. B. (Elijah Barrett), Md. State Normal School. 1200 Lafayette avenue, Baltimore
REID, Harry Fielding, Johns Hopkins University. 608 Cathedral street, Baltimore
REMSEN, Ira, John Hopkins University. 12 E. Biddle street, Baltimore
RIDDLE, Rev. D. H. (D—— H——), Emmitsburg
ROACH, Dr Joseph, 611 Park avenue, Baltimore
ROSE, Thos. E. (Thomas Ellwood), 2427 W. North avenue, Baltimore
RUTLEDGE, J. J. (John Joseph), Johns Hopkins University, Baltimore, 9 George st., Hampden, Baltimore. Permanent address, Alton, Ill.
SCHMECKEBIER, L. F. (Laurence Frederick), Geological Survey, 1330 F street, Washington, D. C. 1620 West Lexington street, Baltimore
SHATTUCK, G. B. (George Burbank), Johns Hopkins University, Baltimore. Sudbrook Park
SILL, Lieut. J. L. (J—— L——), U. S. S. "Windom." Baltimore
STEINER, Bernard C. (Bernard Christian), Enoch Pratt Free Library, 106 West Mulberry street. 1038 North Eutaw street, Baltimore
WHITE, John T. (John T——), Cumberland
WILLIAMS, Mrs George Huntington, 803 Cathedral street, Baltimore

MASSACHUSETTS

ADAMS, Brooks, 23 Court street, Boston. Quincy
AGASSIZ, Elizabeth Cary (Mrs Louis), Radcliffe College. 36 Quincy street, Cambridge
ALDEN, Col. C. H. (Charles Henry), U. S. A., retired, Newtonville
ALLEN, Hon. Charles H. (Charles Herbert), Lowell
ALLEN, L. Mabel (Lucy Mabel), 23 Hudson street, Lynn
ARMS, Miss Mary E. (Mary E——), 9 Union street, Greenfield
ARNOUX, Judge W. H. (W—— H——), Vineyard Haven
AYER, Dr James B. (James Bourne), 518 Beacon street, Boston
BAGG, Rufus M., Jr. (Rufus Mather), Brockton High School. 84 Ellis street, Brockton
BAIRD, Capt. Wm. (William), U. S. A., Massachusetts Institute of Technology, Boston. 83 Newbury street, Boston
BARTON, Geo. H. (George Hunt), 30 Trinity place, Boston. 16 Lexington avenue, Cambridge
BATCHELLER, Robert, 57 Lincoln st. 55 Commonwealth ave., Boston
BEALS, Frederick H. (Frederick Hall), Worcester Academy, Worcester
BLAKE, Clarence John, 226 Marlborough street, Boston
BLAKE, Francis, 125 Milk street, Boston. Weston, Auburndale P. O.
BLAKE, Francis E. (Francis Everett), 95 Milk street. Hotel Bellevue, 21 Beacon street, Boston

BRECK, Sam'l (Samuel), U. S. A., retired, 50 St. Stephen street, Boston

BURTON, Alfred E. (Alfred Edgar), Massachusetts Institute of Technology. 58 Webster street, West Newton

CABLE, Geo. W. (George Washington), 23 Dryads' Green, Northampton

CASSIDY, Arthur B. (Arthur Benjamin), Wollaston

CHAMBERLAIN, Alexander F. (Alexander Francis), Clark University. 12 Shirley street, Worcester

CHANDLER, F. W. (Francis Ward), Massachusetts Institute of Technology. 195 Marlborough street, Boston

CLARK, Charles N. (Charles Nathaniel), 124 Main street. 207 South street, Northampton

CLARK, John S. (John Spencer), 120 Boylston st. 64 Pinckney st., Boston.

COBB, J. Storer (J—— Storer), President Northampton Education Society, Northampton

COLBATH, Laura A. (Laura Anne), Central Street Grammar School. 541 State street, Springfield

CONANT, Edward E. (Edward E——), Lake Pleasant

COOK, Candace, Fowler School, Sprague street. 506 June st., Fall River

CURTIS, George Carroll, 64 Crawford street, Boston

DAKIN, Arthur H. (Arthur Hazard), 30 Court street. 373 Commonwealth avenue, Boston

DANFORTH, G. H. (George Henry), 45 High street, Greenfield

DAVIS, A. McF. (Andrew McFarland), 10 Appleton street, Cambridge

DAVIS, W. M. (William Morris), Geol. Museum, Harvard University. 17 Francis avenue, Cambridge

DAWES, Miss Anna L. (Anna Laurens), 15 Elm street, Pittsfield

DAY, Mrs Mary Lowell (Mrs C—— Atwater), P. O. address, care Boston Safe Deposit Co., 87 Milk street, Boston

DE KALB, Courtenay, San Fernando, Dgo., Mexico. 80 Pond street, Jamaica Plain, Boston

DICKINSON, Marquis F. (Marquis Fayette), 53 State st., Boston. Brookline

DOANE, Geo. E. (George Emerson), 12 S. Main street. 43 Oak street, Middleboro

DOLE, Nathan Haskell, 18 Boylston street. "Hedgecote," Glen road, Jamaica Plain, Boston

DRAKE, Mrs Louis S. (Laura Bell), 37 Evergreen avenue, Auburndale

EASTMAN, C. R. (Charles Rochester), Museum of Comparative Zoölogy. 354 Brookline street, Cambridge

EASTON, Norman S. (Norman Salisbury), George B. Stone School, Globe street. 458 High street, Fall River

ELIOT, Charles W. (Charles William), 5 University Hall. 17 Quincy street, Cambridge.

ELLIS, Annie C. (Annie Claflin), 38 Elm road, Newtonville

EMERSON, B. K. (Benjamin Kendall), Department of Geology, Amherst College. 21 Northampton road, Amherst

ENGLER, Edmund A. (Edmund Arthur), Worcester Polytechnic Institute. 11 Boynton street, Worcester

FAULKNER, Dr George, 29 Greenough ave., Jamaica Plain, Boston

FAY, Charles E. (Charles Ernest), Tufts' College. 92 Professors row, Tufts' College

FIELD, William L.W. (William Lusk Webster), Milton Academy. Milton

FISHER, Miss E. F. (E—— F——), Wellesley College, Wellesley

FORBES, W. H., 233 Chestnut avenue, Jamaica Plain

FULLER, Sarah, 178 Newbury street, Boston. Concord street, Newton Lower Falls

FURBISH, M. I. (Mauran Irving), Attleboro Falls

FRYE, Alexis E., 52 Pinckney street, Boston 1728 Mass. ave., D. C.

GAGE, Mabel Carleton, 50 Pearl street, Worcester

GANONG, William F. (William Francis), Smith College. 11 Massasoit street, Northampton

GARDNER, John L. (John Lowell), 51 Commonwealth avenue, Boston

GARRETT, H. G. (H—— G——), Taunton

GOESSMANN, Charles A. (Charles Anthony), Agricultural College, Amherst

GREEN, Samuel Swett, Free Public Library. 12 Harvard st., Worcester

GREENE, James D. (James Diman), 18 Chase street, Newton Center

GRISWOLD, L. S. (Leon Stacy), 238 Boston street, Dorchester

GROSVENOR, Prof. Edwin A., Amherst

GULLIVER, F. P. (Frederic Putnam), St. Mark's School, Southboro

HALE, Richard A. (Richard Augustus), Essex Company, 80 Salem street, Lawrence

HALL, Prof. G. Stanley, Clark University, Worcester

HAMLIN, Charles S. (Charles Sumner), Ames Building. 2 Raleigh street, Boston

HAMMOND, John C. (John Chester), 59 Main street. 222 Elm street, Northampton

HARDY, Alpheus H. (Alpheus Holmes), 1151 Tremont Building. 445 Beacon street, Boston

HART, Albert Bushnell, 15 Appian Way, Cambridge

HART, Francis R. (Francis Russell), Ames Building, Boston. Milton

HARWOOD, Herbert J. (Herbert Joseph), 220 Devonshire street, Boston. Littleton, Middlesex County

HATHAWAY, Geo. A. (George Adelbert), corner Harvard and Portland streets. 12 Francis avenue, Cambridge

HAYDEN, John E. V. (John Ellerton Vassall), 39 Court street, Boston.

HAZEN, Charles Downer, Smith College, Northampton
Brush Hill road, Milton. P. O. address (residence), Mattapan

HEARD, Augustine, care T. Frank Noonan, 50 State st., Boston

HEATH, D. C. (Daniel Collamore), 110 Boylston street, Boston. 147 Highland avenue, Newtonville

HOGG, Wm. Jas. (William James), Auburn. 54 Elm street, Worcester
HOLDEN, Luther L. (Luther Loud), 296 Washington street, Boston. 9 St John street, Jamaica Plain
HOLMES, Frederic H. (Frederic Harper), Hyannis State Normal School, North street, Hyannis
HORSFORD, Miss Cornelia (Cornelia Conway Felton), 27 Craigie street, Cambridge
HOSMER, Ralph S. (Ralph Sheldon), Roxbury
HOVEY, Horace C. (Horace Carter), 60 High street, Newburyport
HOWE, Mrs Arabella, 261 Beacon street, Boston
HOWELL, Selah, Boston Latin School, Warren avenue, Boston. 9 Kirk street, West Roxbury
HUBBARD, Chas. Eustis (Charles Eustis), 28 State street, Boston. 150 Brattle street, Cambridge
HUBBARD, Dr Frank A. (Frank Allen), 157 High street, Taunton
HUBBARD, G. G. (G—— G——), Cambridge
HUBBARD, Jas. M. (James Mascarene), 201 Columbus avenue. 382 Marlboro street, Boston
HUBBARD, Paul M. (Paul Mascarene), 925 Exchange Building, 53 State street. 382 Marlborough street, Boston
HULL, Jas. W. (James Wells), 3 North st. 40 Appleton ave., Pittsfield
HUNKING, A. W. (Arthur Ward), 374 Stevens street, Lowell
HUXLEY, Henry Minor, Peabody Museum. 401 Craigie Hall, Cambridge
JACKMAN, Prof. Jas. V. (James V——), 183 Lakeside avenue, Marlboro
JAGGAR, T. A., Jr. (Thomas Augustus), Museum of Geology. Ware Hall 15, Harvard street, Cambridge
KENNEDY, Geo. G. (George Golding), Readville
KENNEDY, Harris, 286 Warren street, Roxbury. Blue Hill avenue and Brush Hill road, Milton
KING, Charles F. (Charles Francis), Dearborn School. 107 Elm Hill avenue, Boston
KNEELAND, F. N. (Frederick Newton), 8 Paradise road, Northampton
LAKEMAN, Miss A. M. (Annie Maria), Principal Lane Grammar School. 9 Andrews street, Gloucester
LANZA, Gaetano, Mass. Inst. of Technology. 22 West Cedar st., Boston
LAWRENCE, Wm. H. C. (William Hathaway Clark), Gardner st., Nantucket
LILLEY, Sarah M. (Sarah M——), 548 4th street, South Boston
LINCOLN, Mary L. (Mary L——), Rockport
LITTLE, A. D. (Arthur Dehon), 7 Exchange place, Boston. 45 Warren street, Brookline
LITTLEFIELD, George E. (George Emery), 67 Cornhill, Boston. 16 Chester street, Cambridge
LORD, Dr E. C. E. (E—— C—— E——), Fairfax, Cambridge
LORING, Robert, 192 Devonshire street, Boston

McCandlish, John, 26 Summer st. 239 West Newton st., Boston
May, Benj. D. (Benjamin D——), Principal Hale High School, Stow
Mellyer, Mary C. (Mary C——), 80 Regent street, Roxbury
Mendenhall, T. C. (Thomas Corwin), Worcester
Mendum, Lydia, 184 Franklin street, Melrose Highlands
Merriman, Rev. Dr D. (D——), 95 Irving street, Cambridge
Miller, R. T., Jr. (R—— T——), 156 Tremont st. 125 Beacon st., Boston
Monroe, Will S. (Will Seymour), State Normal School, 59–63 Court street. 75 Court street, Westfield
Morss, Everett, 77 Cornhill. 303 Marlboro street, Boston
Murdock, F. F. (F—— F——), North Adams
Nash, Louis P. (Louis Philip), 121 Elm street. Morgan street, Holyoke
Neifert, W. W. (William Washington), Weather Bureau. The Oxford, 146 Oxford street, Cambridge
Niles, Wm. H. (William Harmon), Massachusetts Institute of Technology, 30 Trinity pl. Copley Square Hotel, Huntington ave., Boston
O'Brien, Elizabeth, 2280 Massachusetts avenue, Cambridge
Olmsted, Frederick Law, Jr., Brookline
Osgood, Edward L. (Edward L——), 221 Beacon street, Boston
Parker, Edmund M. (Edmund Morley), 89 State street, Boston. 63 Sparks street, Cambridge
Parker, Walter S. (Walter Scott), Sch. Com. Rooms, Mason street, Boston. Walnut Knoll, Reading
Parkinson, Wm. D. (William Dwight), 3 Moody street. 103 Lexington street, Waltham
Peck, Annie S. (Annie S——), Redpath Lyceum Bureau, 120 Tremont street, Boston
Pickering, Edward C. (Edward Charles), The Observatory, Cambridge
Pillsbury, Lt. Comdr. J. E. (J—— E——), 50 Commonwealth avenue, Boston
Pope, Dr C. Augusta (Caroline Augusta), 163 Newbury street, Boston
Porter, Dwight, Massachusetts Institute of Technology, Boston. 149 Hawthorne street, Malden
Pousland, F. G. (Frederic Grahame), Old Colony Trust Company, Ames Building, Boston. 263 Lafayette street, Salem
Pratt, Miss Emma A. (Emma A——), 6 Ashland street, Worcester
Pray, Benj. S. (Benj. S——), 53 State street, Boston
Pray, James Sturgis, cor. Walnut and Warren streets, Brookline. The Jarvis, 27 Everett street, Cambridge
Pritchard, Myron T. (Myron T——), 125 School street, Roxbury
Pritchett, Henry S. (Henry Smith), Massachusetts Institute of Technology. 337 Marlboro street, Boston
Redfield, Julia W. (Julia Wallace), 290 South street, Pittsfield
Rice, A. Hamilton (Alexander Hamilton), Harvard Medical School. 389 Beacon street, Boston

RICHARDS, Mrs Ellen H. (Ellen Henrietta Swallow), Massachusetts Institute of Technology, 525 Boylston st. 32 Eliot st., Jamaica Plain

RICHARDS, Ralph W. (Ralph Webster), Tufts College. 120 Curtis street, West Somerville

ROBBINS, A. G. (Arthur Graham), Massachusetts Institute of Technology, Boston. 60 Webster street, West Newton

ROBINSON, Albert G. (Albert Gardner), Buckland

ROTCH, A. Lawrence (Abbott Lawrence), Blue Hill Observatory, Hyde Park. 235 Commonwealth avenue, Boston

RUSSELL, Frank, Harvard University, Cambridge

SARGENT, C. S. (Charles Sprague), Arnold Arboretum, Jamaica Plain. Brookline

SAWYER, Edward, 60 Congress street, Boston. Bellevue street, Newton

SAWYER, J. H. (J—— H——), Easthampton

SAWYER, W. H. (William Henry), 66 Lincoln street. 107 Lincoln street, Worcester

SCUDDER, Sam. H. (Samuel Hubbard), Cambridge

SHARPLES, S. P. (Stephen Paschall), Boston. 22 Concord ave., Cambridge

SHATTUCK, Horace B. (Horace Bowditch), 50 Central street. 366 Andover street, Lowell

SIMMONS, John F. (John Franklin), 1010 Exchange Building, 53 State street, Boston. Hanover. P. O. address, "Assinippi"

SINNOTT, Chas. P. (Charles Peter), State Normal School. Bridgewater

SMILIE, Edw. S. (Edward Stetson), 429 Center st. 36 Maple ave., Newton

SMITH, Miss J. Angelina (J—— Angelina), Hopedale

SNYDER, W. H. (William Henry), Academy. 125 Pa. ave., Worcester

SPENCER, W. H. (William Henry), D. D. S., 138 Main street. 36 Pomeroy terrace, Northampton

STANWOOD, Edward, 201 Columbus ave., Boston. 76 High st., Brookline

STERRETT, J. R. S. (J—— R—— S——), Amherst

STEVENS, M. T. (Moses Tyler), North Andover

STEVENSON, Holland Newton, Commander, U. S. Navy, Pittsfield

STONE, James S. (James Savage), 234 Marlborough street, Boston

SULLIVAN, Richard, 27 Kibby street. 35 Brimmer street, Boston

SUNICHRAST, Prof. C. de (C—— de), Harvard University, Cambridge

SWAIN, George F. (George Fillmore), Massachusetts Institute of Technology. 435 Marlboro street, Boston

TAFT, Mrs Alphonso, Elm street, Millbury

THOMPSON, Miss Mary H. (Mary H——), 38 Rutland square, Boston

THOMSON, Elihu, General Electric Co., Center street, Lynn. 22 Monument avenue, Swampscott

TILDEN, Charles J. (Charles J——), P. O. Box 671, Milton

TINGLEY, Xenophon D. (Xenophon Demosthenes), 13 Hampden street, Gloucester

TOWNSEND, E. B. (Edward Britton), 27 Kibby street, Boston. Hawthorn road, Brookline

TRUESDELL, Waldo B. (Waldo Bromley), Holden

TUCKERMAN, Charles S. (Charles Sanders), 1 Court street. 201 Bay State road, Boston

WADLIN, Horace G. (Horace Greeley), State House, Boston. 118 Woburn street, Reading

WARD, Robert De C. (Robert De Courcy), Harvard University, Cambridge

WATERS, Isabel H. (Isabel Holman), Millbury

WATSON, Thomas A. (Thomas Augustus), Howard street, Quincy. Quincy avenue, East Bramtree

WEBBER, A. B. (A—— B——), Cambridge

WEEKS, John W. (John W——), 97 Valentine street, West Newton

WELLMAN, Hiller C. (Hiller Crowell), City Library Association, Springfield

WELLS, Louisa A. (Louisa Appleton), 45 Commonwealth avenue, Boston

WHEELER, Leonard, 28 Elm street, Worcester

WHITIN, Mrs John C. (John C——), Whitinsville

WHITING, S. B. (Stephen Betts), 11 Ware street, Cambridge

WHITE, Miss Abbie M. (Abbie M——), Farnumsville

WILDER, Harris H. (Harris Hawthorne), Zoölogical Laboratory, Smith College, Dryads Green, Northampton

WILDER, Katherine L. (Katherine Larkin), Elm Hill School, Barre

WILLISTON, A. Lyman (Asahel Lyman), cor. Main and King streets. 35 Round Hill, Northampton

WILSON, Wm. Power (William Power), 506 Exchange Building, 53 State street. 25 Granby street, Boston

WINDER, John W. (John White), 136 Congress street, Boston. 78 High street, Newburyport

WOOD, P. W. (Pliny Williams), 66 Lincoln st. 9 Shattuck st., Worcester

WOODS, Henry, 33 Summer street, Boston

WOODS, Rev. Robt. M. (Robert McEwen), Hatfield

WOODMAN, J. Edmund (Joseph Edmund), University Museum, Harvard University, Oxford street. 56 Frost street, North Cambridge.

WOODWARD, Frank E. (Frank Ernest), 36 Union street, Boston. 93 Rockland avenue, Malden

WOODWORTH, J. B. (Jay Backus), Harvard University. 24 Langdon street, Cambridge

YALE, Caroline A. (Caroline Ardelia), Clarke School, Round Hill, Northampton

MICHIGAN

ARMSTRONG, Miss May C., 472 West High street, Detroit

BIXBY, Major W. H. (William Herbert), U. S. A., Corps of Engineers, U. S. Engineer Office, Detroit

GREGORY, William M. (William Mumford), Jonesville
HASKELL, E. E. (Eugene Elwin), 71 Griswold st. 62 Bagg st., Detroit
HOOD, O. P. (Ozni Porter), Mich. Coll. of Mines. Hubbel st., Houghton
JEFFERSON, Mark S. W. (Mark Sylvester William), State Normal College. 14 Normal street, Ypsilanti
JOPLING, J. E. (James Edmund), Cleveland-Cliffs Iron Co., Ishpeming. Marquette
LANE, Alfred C. (Alfred Church), 503 Hollister Block. 408 Grand street S., Lansing
LEVERETT, Frank, 312 North Thayer street, Ann Arbor
MARTINDALE, W. C., Detroit
PARMELEE, H. P. (Horatio Plum), 503 Mich. Trust Bldg., corner Ottawa and Pearl streets. 594 Cherry street, Grand Rapids
PETTEE, Wm. H. (William Henry), University of Michigan. 554 Thompson street, Ann Arbor
RUSSELL, Israel C. (Israel Cook), 1703 Hill street, Ann Arbor
SCHNEIDER, C. F. (Charles Fred), U. S. Weather Bureau. 741 Ionia st. W., Lansing
WEST, P. C. F. (P—— C—— F——), Calumet

MINNESOTA

ALLEN, W. P. (William Prescott), 711 Lincoln avenue, St Paul
BERKEY, Charles P. (Charles Peter), University of Minnesota. 1601 7 street southeast, Minneapolis
BOYNTON, Frances L. (Frances Laura), corner Second and Ramsey sts. Hastings, Dakota county
BRADLEY, Capt. John J. (John Jewsbury), 14th Inf., Fort Snelling
BROWER, Hon. J. V. (Jacob Vradenberg), Chairman Museum Committee Minnesota Historical Society, St Paul
COX, Ulysses O. (Ulysses Orange), State Normal School, 5 street. 325 Clark street, Mankato
CROSS, Judson Newell, 600 New York Life Building. Minneapolis
GAILLARD, D. D. (David Du Bose), Providence Building. 1418 East Superior street, Duluth
GOSSMAN, Leo A. (Leo Andrew), Spring Valley
GREEN, Samuel B. (Samuel Bowdlear), University of Minnesota, St Anthony Park. 2095 Dooley avenue, St Paul
HALL, C. W. (Christopher Webber), University of Minnesota. 803 University avenue southeast, Minneapolis
HOXIE, R. L. (Richard Leveridge), U. S. Engineers' Office. 55 Western avenue, St Paul
KLEEBERGER, Geo. R. (George Reinard), State Normal School. 203 S. 4 street, St Cloud

LOCKWOOD, Major D. W. (D—— W——), St Paul
PHELPS, Wm. F. (William Franklin), 317 Manhattan Bldg., St Paul
REDFIELD, Wm. W. (William Wallace), Room 8, City Hall. 2637 Portland avenue, Minneapolis
SWENSON, Harold, New London
UPHAM, Warren, Secretary Minnesota Historical Society. 655 Central park, St Paul
WALLACE, G. W. (G—— W——), 1721 E. 1 street, Duluth

MISSISSIPPI

DABNEY, T. G. (Thomas Gregory), Office Levee Board. Mosby Hotel, Clarksdale
DOBYNS, J. R. (John Robert), 713 North State street, Jackson
STINSON, J. L. (J—— L——), Agricultural College

MISSOURI

ANDERSON, R. L. (Robert Lee), Government Bldg., 6 and Broadway. 313 Bird street, Hannibal
BRITTS, Dr Jno. H. (John Henry), 114 East Franklin street. 127 East Franklin street, Clinton
BROADHEAD, Prof. G. C. (G—— C——), 701 South 5 street, Columbia
CARPENTER, Geo. O. (George Oliver), Clarke ave. and 10 st., St Louis
CARR, Brig. Gen. E. A. (Eugene Asa), U. S. A., St Louis. Care Adjutant General, Washington, D. C.
CASEY, Major Thos. L. (Thomas Lincoln), Post Office Drawer 71, St Louis
CHAUVENET, Louis, 5501 Chamberlain avenue, St Louis
CHUBBUCK, Levi, 721 Olive street. 4147 Russell avenue, St Louis
FAIRBANKS, J. (Jonathan), corner Center and Jefferson streets. Corner Sherman and Center streets, Springfield
GRAVES, Porter, Central High School, 11 and Locust streets. 717 Elmwood avenue, Kansas City
GUY, Wm. E. (William Evans), 72 Laclede Building. 4380 Westminster place, St Louis
HAGERMAN, James, Wainwright Building. 3654 Pine street, St Louis
HAZEN, John S. (John Suel), Springfield, Mo., Boonville and Brower. 876 N. Jefferson
IRISH, H. C. (Henry Clay), Mo. Botanical Garden, 1920 Old Manchester road, St Louis
LADD, Geo. E. (George Edgar), Missouri School of Mines, Rolla
LEIGHTON, Geo. B. (George Bridge), Monadnock, N. H., and St Louis
MARBUT, C. F. (C—— F——), University of Missouri. Columbia
MERMOD, Mrs Augustus S. (Mary E——), Broadway and Locust, St Louis. Kirkwood

MORRISON, G. B. (Gilbert Burnet), 15 and Forest streets. 2510 Perry avenue, Kansas City
NIXON, Dr J. H. (John Howard), 314 St Louis street, Springfield
OCKERSON, J. A. (John Augustus), 122 N. 7 st. 4217 Washington ave.
OWEN, Miss Luella A. (Luella Agnes), 306 North 9 street, St Joseph
PERKINS, A. T. (Albert Thompson), 107 Franklin avenue. 4392 Olive street, St Louis
PETERSON, C. A. (Cyrus Asbury), 816 Olive street. 8 Shaw place, St Louis
SAMPSON, F. A. (Francis Asbury), Columbia. Sedalia
SCHRENK, Hermann von, Shaw School of Botany. 5227 Washington avenue, St Louis
SEDGWICK, Lee M. (Lee M——), Beals Building, Kansas City
SHEPARD, Edward M. (Edward Martin), Drury College. 1403 Benton avenue, Springfield
SIMMONS, W. D. (Wallace Delafield), Simmon's Hardward Company, 9 and Spruce streets. 4638 Berlin avenue, St Louis
SIMPKINS, Allan T. (Allan Thacher), 510 Pine street. 3700 Westminster place, St Louis
SLOCUM, E. N. (Ebenezer N——), Frisco System R. R. 806 Mt Vernon street, Springfield
SLUDER, Dr Greenfield, 2912 Pine street, St Louis
SQUIRE, Willis C. (Willis Clifton), Mechanical Department Offices, Frisco System. 817 Benton avenue, Springfield
TAYLOR, F. W. (Frederic William), World's Fair. 5570 Cabanne avenue, St Louis
THACHER, Arthur, Roe Bldg., 510 Pine st. 4304 Wash'n ave., St Louis
TITTMANN, H. H. (H—— H——), 3726 Washington Boulevard, St Louis
TOEPPEN, Dr H. (Hugo), 3117–3119 S. 7 st. 1923 Sidney st., St Louis
TRELEASE, Wm. (William), Missouri Botanical Garden, St Louis
VERVINS, Alfred de, 3923 Delmar Boulevard, St Louis
WEBSTER, Elma J. (Elma Josephine), 15 and Campbell, Hamilton School. 1205 East 31 street, Kansas City
WINSLOW, Arthur, 104 West 9 street, Kansas City
WOODWARD, Calvin M. (Calvin M——), Washington University, St Louis

MONTANA

BOGERT, J. V. (J—— V——), Bozeman
BRAYTON, H. M. (H—— M——), Billings
BROWNE, Arthur B. (Arthur B——), Bearmouth
BURRELL, Alexander, Marysville
CHISHOLM, O. P. (O—— P——), Bozeman
CLEMENTS, Mrs A. B. (A—— B——), Helena
DAVIES, John F. (John Francis), Silver Bow Blk., 10 W. Granite st., Butte

ELROD, Morton J. (Morton John), Univ. Mont., 205 E. 5 st. S., Missoula
GILLETTE, Edward, Billings
GOODALE, C. W. (Charles Warren), Lewisohn Bldg. 900 W. Quartz st., Butte
LAIRD, Oliver F. (Oliver F——), Butte
MOSER, Gust, Forest Supervisor, Ovando
MUMBRUE, Dan. P. (Daniel Perrin), U. S. Surveyor General's Office, Helena. Wolsey, Meagher county
NEWTON, T. P. (T—— P——), Butte
READ, Wm. (William), Columbia Falls
ROBERTSON, James M. (James Monroe), 31 West Main street. 1 Dell Place, Bozeman
RUSSEL, J. R. (James Richard), Butte Free Public Library. 849 West Quartz street, Butte
SIZER, F. L. (Frank Leonard), Butte. Helena
STEWART, Benj. D. (Benjamin Duane), 508 East Pine street, Missoula
WHITEFOOT, Dr Robt. M. (Robert Mills), 111 Main street, Bozeman
WILSON, Mary C., 108 5 avenue, Helena
WINCHELL, Horace V. (Horace Vaughn), The Lenox, 132 West Granite street, Butte

NEBRASKA

BARBOUR, Erwin H. (Erwin Hinckley), University of Nebraska. 1234 R street, Lincoln
BESSEY, Charles E. (Charles Edwin), University of Nebraska. 1504 S street, Lincoln
BRUCE, E. E. (Edward Estell), 401–405 South 10 street. 8 street and Worthington place, Omaha
CALDWELL, How. W. (Howard Walter), University of Nebraska. 511 North 16 st., Lincoln
DAVIS, Ellery W. (Ellery Williams), University of Nebraska. 1545 C street
DIETZ, C. N. (Charles Nelson), 1214 Farnam street. 428 S. 38 st., Omaha
DOANE, A. H. (Arthur Hedley), 812 Farnam st. 812 N. 39 st., Omaha
FURNAS, Robt W. (Robert Wilkinson), 44 South 6 street, Brownville
GORDON, C. H. (Charles Henry), 15 and N streets. 1828 F st., Lincoln
HAMILTON, Frank T. (Frank T——), Omaha
HOLDREGE, George W. (George W——), Omaha
IVES, W. C. (W—— C——), 132 North 39 street, Omaha
KILPATRICK, Thomas, 1507 Douglas street. 410 North 22 street, Omaha
LEWIS, A. B. (Albert Buell), University of Nebraska. 1636 K st., Lincoln
LOVELAND, G. A. (George Andrew), University of Nebraska. 1347 L street, Lincoln
MCCHEANE, Sarah M. (Sarah Maria), Long School, 26 and Franklin streets. The Winona, 9 27 street and Dewey avenue, Omaha

MANDERSON, Charles F. (Charles Frederick), 1001 Farnam street. 3100 Chicago street, Omaha
MURPHY, Frank; Merchants' National Bank, Omaha
NEWTON, Wm. (William), 115 Hickory st. 820 Worthington pl., Omaha
PEARSE, C. G. (Carroll Gardner), 508 City Hall. 2205 S. 10 st., Omaha
PRATT, James H. (James H——), Omaha Club, Omaha
PRITCHETT, Geo. E. (George Edward), 1224 Farnam street. 2124 Cass street, Omaha
ROHRBOUGH, Mrs E. J. (Elmore Jackson), 607 North 40 street, Omaha
SMITH, Pierson D. (Pierson D——), St Edwards
STOUT, O. V. P. (Oscar Van Pelt), University of Nebraska. 1735 Euclid avenue, Lincoln
WINNE, C. K. (Charles Knickerbocker), Deputy Surgeon General, U. S. A., Headquarters Department of Missouri. The Omaha Club

NEVADA

FRIEND, Chas. W. (Charles William), Carson street. Corner Stewart and King streets, Carson City
FULTON, R. L. (Robert Lardin), 118 West 1 street, Reno
NEWLANDS, Hon. F. G. (Francis Griffith), Reno
SMITH, W. T. (W—— T——), Elko
STUBBS, Joseph E. (Joseph Edward), Nevada State University, Reno
TAYLOR, L. H. (L—— H——), Carson City

NEW HAMPSHIRE

BROWN, O. B. (Orton Bishop), Berlin
FLETCHER, Robert, 3 S. Park street. 42 N. College street, Hanover
HARRIS, T. W. (Thaddeus William), High School Building, Winter st. 57 Elm street, Keene
HITCHCOCK, C. H. (Charles Henry), Dartmouth College. Hanover
JOHNSTON, J. W. (John Walter), Depot square, Concord. 1819 Elm st., Manchester
LORING, Everett G. (Everett Grey), A. B., principal Hampton Academy and High School, Hampton
SCHOULER, James, 60 Congress street, Boston, Mass. Intervale
TOWN, Col. F. L. (F—— L——), Lancaster

NEW JERSEY

BANCROFT, Miss M. E. (M—— E——), "The Lindens," Haddonfield
BARR, Harry P. (Harry Perkins), 39 Cortlandt st., N. Y. East Orange
BONNELL, Charles I. (Charles Isham), "Bonnell Building," 196 Market street. 13 South 9 street, Newark

BREWERTON, Major H. F. (Henry Feltus), U. S. A., 1037 East Jersey street, Elizabeth

COLLINGWOOD, F. (Francis), 346 B'way, N. Y. 414 S. Broad st., Elizabeth

COX, Jean W. (Jean Weir), Haddonfield Training School. "The Lindens," P. O. Box 715, Haddonfield

DOD, S. Bayard (Samuel Bayard), First National Bank, Hoboken. 170 Scotland Road, South Orange

DOWNS, W. F. (William Fletcher), 75 Fairview avenue, Jersey City

DUTCHER, Ass't Surg. B. H. (Basil Hicks), U. S. A., Fort Hancock

ELLIS, Miss A. C. (A—— C——), The Chestnut, Plainfield

FARR, Marcus S. (Marcus Stults), Princeton Univ. 12 Maple st., Princeton

FLEMER, J. A. (John Adolph), Main street, Springfield

HALLOCK, Charles, 278 Pacific avenue, Jersey City

HOFFMAN, Samuel V. (Samuel Verplanck), 91 Madison ave., Morristown

HOLLISTER, George B. (George B——), Rutherford

JACOBUS, D. S. (David Schenck), Stevens Institute of Technology, Hoboken. 83 Grand street, Jersey City

JENKINS, Weston, Trenton

KENT, Wm. (William), 220 Broadway, New York. 122 Pennington avenue, Passaic

KUNHARDT, W. B. (Wheaton Bradish), 1 B'way, N. Y. Bernardsville

LIBBEY, William, Princeton University. 20 Bayard lane, Princeton

LUTHER, Agnes Vinton, Newark Normal School. 917 Broad st., Newark

MCCLURE, C. F. W. (Charles Freeman Williams), Princeton University. 80 University place, Princeton

MCGRAW, James H. (James Herbert), 120 Liberty st., N. Y. Madison

MCLAUGHLIN, A. J. (Allan Joseph), Ellis Island, New York harbor. 185 Summit avenue, Jersey City

MACCONNELL, C. C. (Charles Curtis), 611 B'way, N. Y. Morristown

MARSH, Matilda L. (Matilda Lucille), 600 Park avenue, Paterson

MURPHY, Franklin, 143 Chestnut st. 1027 Broad street, Newark

ORTMANN, A. E. (Arnold Edward), 8 Maple street, Princeton

PFORDTE, Otto F. (Otto Ferdinand), 15 Donaldson avenue, Rutherford

PULLMAN, S. C. (Samuel Cooper), 515 Broadway, New York. Chester, Morris county.

QUACKENBUSH, D. M. (Dexter M——), with Prudential Insurance Co. 887 Lake street, Newark

REILLY, Miss S. A. (S—— A——), State Normal School, Trenton

ROBISON, Mrs Julia A. (Julia A——), Cranbury.

ROCKWOOD, C. G., Jr. (Charles Greene), Princeton University. 34 Bayard lane, Princeton

ROEBLING, W. A. (Washington Augustus), 191 W. State street, Trenton

RUSBY, Dr H. H. (Henry Hurd), College of Pharmacy, 115 W. 68 st., New York. Newark

SILVESTER, C. F. (Charles Frederick), Princeton University. 13 Nassau Hall, Princeton
SMOCK, Dr. J. C. (J—— C——), Trenton
STEVENS, Frederic W. (Frederic William),46 Macculloch ave.,Morristown
SWANN, Mrs Thomas, Princeton
VOORHEES, Foster M. (Foster McGowan), 142 Broad street. 297 N. Broad street, Elizabeth
WAKEMAN, J. M. (J—— M——), 118 Washington st., East Orange
WALL, Edward, Stevens Institute of Technology, Hoboken. 157 Scotland Road, South Orange
WEBSTER, Miss Mary E. (Mary E——), Cranbury
WHITON, John M. (John Milton), 73 William street, New York. 821 Central avenue, Plainfield
WILEY, Wm. H. (William Halsted), 43 E. 19 street, New York city. 73 Halsted street, East Orange
WILLIAMS, Miss Thyrza C. (Thyrza C——), The Lindens, Haddonfield

NEW MEXICO

APPEL, D. M. (Daniel Mitchell), major and surgeon U. S. Army, Fort Bayard
KEEN, A. A. (Alpheus Augustus), Albuquerque
PRINCE, Hon. L. B. (L—— B——), Santa Fé

NEW YORK

ABBOTT, Major Willard, 205 West 57 street, New York City
ADAMS, Cyrus C. (Cornelius Cyrus), 170 Nassau street. 416 W. 118 street, New York City
ADAMS, Geoffrey C. (Geoffrey Charlton), 29 Broadway, New York City. 16 Hemlock place, New Rochelle
ALDRICH, Wm. S. (William Sleeper), Potsdam
ALLEN, J. A. (Joel Asaph), American Museum of Natural History, Central Park W. The Kenesaw, 202 W. 103 street, New York City
ALLEN, Robert G. (Robert G——), Weather Bureau, Lincoln Hall Campus. Cornell Heights, Ithaca
ANDERSON, A. A. (Abraham Archibald), Bryant Park Studios, 80 W. 40 street. 6 E. 38 street, New York City
BACON, Don H. (Don Henry), 100 B'dway. 13 E. 38 st., New York City
BAKER, George H. (George H——), Columbia University, New York City
BAKER, R. S. (R—— S——), 141 E. 25 st., New York City
BALBACH, William, 261 W. 93 street, New York City
BALDWIN, Evelyn B. (Evelyn Briggs), 60 Liberty street, New York City
BALDWIN, Wm. H., Jr. (William Henry), 128 Broadway, New York City. 112 Willow street, Brooklyn

BARDWELL, D. L. (Darwin Long), Stapleton

BARBER, A. L. (Amzi Lorenzo), 7 E. 42 street, New York City. "Belmont," 14 and Clifton streets, Washington, D. C.

BARKER, Rear Admiral A. S. (Albert Smith), U. S. N., Commandant New York Navy Yard and station

BARRETT, Hon. John, Waldorf-Astoria, New York City

BARRIGER, Brig. Gen. John W. (John Walker), U. S. A., 202 West 103 street, New York City

BEDELL, Mrs Edwin A. (Edwin A——), 56 Chestnut street, Albany

BEERS, Jessica E. (Jessica Elizabeth), 213 Bryant street. The Wellesley, Edward and Franklin streets, Buffalo

BENEDICT, Ezra W. (Ezra Wilkins), Warrensburg

BENEDICT, W. De L. (W—— De L——), 43 Cedar street, New York City

BENJAMIN, Rev Raphael, M. A., Keap Street Temple, Brooklyn. Hotel Premier, 139 East 72 street, New York City

BERNHEIMER, Charles L. (Charles Leopold), 120 Franklin street. Hotel Netherland, 5 avenue and 59 street, New York City

BICKMORE, Albert S. (Albert Smith), American Museum of Natural History, Central Park. 130 West 80 street, New York City

BIEN, Joseph R. (Joseph Rudolph), 140 6 avenue. 321 West 57 street, New York City

BIEN, Julius, 140 6 avenue. 321 West 57 street, New York City

BISBEE, Joseph B. (Joseph Bartlett), River View Military Academy, Poughkeepsie

BISHOP, James L. (James Lord), 135 Broadway. 152 East 37 street, New York City

BISHOP, Maria W. (Maria Woodward), 18 Tompkins street, Cortland

BLAKE, Frederick, 8 1 street, Troy. Waterford

BOLLENHAGEN, Marie T. (Marie Theodore), 331 Greene avenue, Brooklyn

BOUTON, Geo. I. (George Innes), Room 1152, 11 Broadway, N. Y. City

BOWEN, Clarence W. (Clarence Winthrop), 130 Fulton street. 5 East 63 street, New York City

BRACQ, Prof. Jean C. (Jean Charlemagne), Vassar College, Poughkeepsie

BRADLEY, Elizabeth L. (Elizabeth Lucinda), Geneseo State Normal School, Geneseo

BRIDGMAN, Herbert L. (Herbert Lawrence), 292–293 Washington and 317–321 Fulton streets. 604 Carlton avenue, Brooklyn

BRIGHAM, Albert P. (Albert Perry), Hamilton

BROWNLEE, Raymond B. (Raymond Bedell), High School, Far Rockaaway. Cedarhurst, Long Island

BULLARD, William M. (William Merrill), 302 Madison ave., N. Y. City

BURGESS, Edward S. (Edward Sandford), Normal College, East 68 street. 11 West 88 street, New York City

BURKE, Mrs B. Ellen (Bridget Ellen), 31 Barclay st., N. Y. City. Malone

BURR, J. H. Ten Eyck (Jacob H—— Ten Eyck), the Cazenovia National Bank, Cazenovia

BURTIS, Pay Director Arthur, U. S. N., U. S. Navy Pay Office. 280 Broadway, New York City

BUTLER, Louis C., 904 Lexington avenue, New York City

BYRNE, Col. C. C. (C—— C——), 43 West 25 street, New York City

CAHOON, James B. (James Blake), 40 Wall street, New York City. 31 Winyah avenue, New Rochelle

CARSS, Miss Eliza, Teachers' College, New York City

CARY, Mrs Elizabeth M. L. (Elizabeth Murray Love), 184 Delaware avenue, Buffalo

CATTELL, J. McKeen (James McKeen), Columbia University, West 116 street, New York City. Garrison-on-Hudson

CLARKE, Frederic H., U. S. Weather Bureau, Binghamton

CLARKE, John M. (John Mason), State Hall, Albany

COGSWELL, W. B. (William Browne), 100 East Washington street. 1009 James street, Syracuse

COLBY, F. M. (Frank Moore), 21 Washington place. 356 Lexington avenue, New York City

COLE, Chas. W. (Charles Wadsworth), High School Building, Steuben and Eagle streets. 354 Hudson avenue, Albany

COMSTOCK, E. (Edward), Rome

CONGER, Clarence R. (Clarence Rapelje), 37 Liberty st., New York City

CONNOLLY, Miss Louise, 136 West 109 street, New York City

COOK, Frederick A. (Frederick Albert), 687 Bushwick avenue, Brooklyn

CORNWALL, Arthur B. (Arthur Bradford), 842 Broadway. 355 West 118 street, New York City

CORTHELL, E. L. (Elmer Lawrence), 1 Nassau street, New York City. North Egremont, Mass.

CREEVEY, John K. (John K——), 41 Wall street, New York City

CRUMP, S. G. (Shelley Godwin), corner Main and State sts., Pittsford

CURRIER, Enoch Henry, The New York Institution for the Instruction of the Deaf and Dumb, 163 street and Broadway, New York City

CUTHBERTSON, David, U. S. Weather Bureau. 490 Normal ave., Buffalo

DAVISON, Mrs George, 22 1 avenue. Gloversville

DELLENBAUGH, F. S. (Frederick Samuel), 35 West 21 street, New York City. 16 West 61 street

DEMING, Wm. H. (William Henry), The Continental Iron Works, West and Calyer streets, New York City. 111 Pulaski street, Brooklyn

DODGE, Richard E. (Richard Elwood), Teachers' College, Columbia University, New York City. Yonkers

DOUGHLY, Wm. Howard (William Howard), Troy

DOUGLAS, James, 99 John street. Spuyten Duyvil, New York City

DOWLING, Ruth E. (Ruth Elizabeth), Teachers' College, West 120 street, New York City

DRAPER, Daniel, New York Meteorological Observatory, New York City. Hastings-on-Hudson

DRURY, John B. (John B——), 6 Warren street, New York City

DUDLEY, Guilford, 260 Main street. 104 Garden street, Poughkeepsie

DUNN, Robert, care of Commercial Advertiser, New York City

DURKEE, E. R. (E—— R——), West Park (on Hudson)

DWIGHT, William B. (William Buck), Vassar College, Poughkeepsie

EASTMAN, Geo. (George), 343–347 State st. 400 East avenue, Rochester

EILERS, A. (Anton Frederic), 71 Broadway, New York City. 751 St Mark's avenue, Brooklyn

EGAN, Major John, U. S. A., 47 West 12 street, New York City

ELLSWORTH, W. W. (William Webster), 33 East 17 street, New York City

ENGLISH, N. C. J. (N—— C—— J——), 107 Broad street, New York City. Elizabeth, N. J.

EWEN, C. (Clarence), care A. B. Mills, 127 Avenue D, New York City

FAIRCHILD, H. L. (Herman Le Roy), University of Rochester, Rochester

FAIRCHILD, John F. (John Fletcher), 18 E. 1 street, Mount Vernon. 332 Pelhamdale avenue, Pelham

FERREY, W. I. (W—— I——), 6 William street, Auburn

FIESSELL, Dr Lewis F., Presbyterian Hospital, New York City

FINDLEY, William L. (William Luther), 67 Wall street. 31 East 63 street, New York City

FLEMING, Miss Mary A. (Mary Anne), The Oxford, 432 Pearl st., Buffalo

FOX, Paymaster R. E. (Royal Evaungeal), The Solvay Process Co. 303 North Lowell avenue, Syracuse

GAGE, Hon. Lyman J. (Lyman Judson), New York City

GAGE, S. H. (Simon Henry), Stimson Hall, Cornell University Campus. 4 South avenue, Ithaca

GENTHE, Mrs K. W. (Martha Krug), PH. D., 109 West 54 street. 152 East 54 street, New York City

GERHARD, Wm. Paul (William Paul), C. E., 33 Union square, New York City. 39 Strong place, Brooklyn

GIFFORD, John C. (John Clayton), 109 Summit avenue, Ithaca

GOODRICH, E. P. (Ernest Payson), Navy Yard, New York City. 167 Clinton avenue, Brooklyn

GOODWIN, Emily N. (Emily Nichols), Public School No. 12. 114 Gates avenue, Brooklyn

GRANGER, John T. (John Tileston), 1 Broadway, New York City. 1838 Connecticut avenue, Washington, D. C.

GRINNELL, Dr. G. B. (G—— B——), Audubon Park, sta. M, N. Y. City

GROSSMANN, Arpad L. (Arpad Landor), 222 Broadway. The Beresford, 1 West 81 street, New York City

GROSVENOR, Edwin P. (Edwin P——), 414 West 118 street, N. Y. City

GRUGAN, Major F. C. (Frank Carter), U. S. A., retired, 10 E. 53 st., New York City

GRUVER, E. A. (Elbert Asa), 904-922 Lexington ave., New York City
GUE, Harry D. (Harry D——), 12 avenue and 58 street, Brooklyn
HALE, Geo. D. (George David), Brown's race and Furnace street. 1059 Lake avenue, Rochester
HALLOCK, Wm. (William), Columbia University. 417 W. 118 st., New York City
HAMILTON, Allen, 127 W. 61 street, New York City
HAMMOND, Mrs John Hays, 32 Riverside drive, New York City
HANAMAN, C. E. (Charles Edward), Troy Savings Bank, 2 and State sts. 103 1 street, Troy
HARRIMAN, E. H. (Edward H——), 120 Broadway. 1 E. 55 street, New York City
HAWKINS, Gen. H. S. (H—— S——), 25 E. 46 street, New York City
HELLER, Max, 70 E. 92 street, New York City
HELM, F. C. (Frank Conrad), 7 Wall street. 66 Madison avenue, New York City
HERING, Rudolph, 170 Broadway, New York City. 235 Jefferson avenue, Brooklyn
HERMAN, Mrs Esther, 59 West 56 street, New York City
HERZOG, Paul M. (Paul Max), 22 William street. 41 West 68 street, New York City
HIGGINS, F. M. (Frederick Marcy), 172 West 2 street, Oswego
HIMES, Albert J. (Albert J——), Oswego
HINMAN, Russell, 100 East Washington square, New York City. 88 Boulevard Summit, New Jersey
HOE, Arthur I. (Arthur Ingersoll), 24 Apley Court, Cambridge, Mass. 11 East 36 street, New York City
HOE, Mrs Robert, 11 East 36 street, New York City
HOLBROOK, Levi, Box 536, New York City
HOPKINS, G. B. (George Bates), 52 Broadway. 25 West 48 street, New York City
HOPKINS, T. C. (Thomas Cramer), Syracuse University. 103 Marshall street, Syracuse
HOSMER, E. S. (Edward Sturgis), 32 Nassau street, New York City
HOUGH, A. L. (Alfred Lacey), 550 Park avenue, New York City
HOVEY, E. O. (Edmund Otis), American Museum of Natural History, 77 st. and Central Park west. 115 West 84 st., New York City
HOWE, H. C. (Henry Clarence), 100 Broadway, New York City. 54 Cranberry street, Brooklyn
HOWE, Dr S. B. (S—— B——), Schenectady
HOWISON, Rear Admiral H. L. (Henry Lycurgus), U. S. N, retired, 72 Ashburton avenue, Yonkers
HUBBARD, R. J. (R—— J——), Cazenovia
HURD, Arthur W. (Arthur William), Buffalo State Hospital, Forest avenue, Buffalo

HUTTON, F. R. (Frederick Remsen), Columbia University, 116 street and Broadway. 319 West 107 street, New York City

HUTTON, William Rich, 35 Broadway, New York City

JACCACI, A. F. (August Floriano), 141 E. 25 st. 49 W. 57 st., N. Y. City

JAMES, Darwin R. (Darwin Rush), 123 Maiden Lane, New York City. 226 Gates avenue, Brooklyn

JANES, Herbert, 725 6 avenue. 258 West 107 street, New York City

JESUP, Morris K. (Morris Ketchum), 195 Madison avenue, New York City

JOHNSON, Frank Edgar, 10 Getty square. 747 Warburton ave., Yonkers

KELLEY, W. D. (William Datus), 45 E. 42 street, New York City. 173 Roberts avenue, Yonkers

KEMP, J. F. (James Furman), Columbia University. 211 W. 139 street, New York City

KIMBALL, Jas. P. (James P——), Asst. Surg. Gen., U. S. A., Onteora Club, Tannersville

KINGSFORD, T. P. (Thomas Pettibone), 378 W. 1 street, Oswego

LADUE, Pomeroy, New York University. University Heights, New York

LAGROVE, Eugene, Hotel Margaret, Brooklyn

LANDIS, Capt. J. F. Reynolds (John Fulton Reynolds), 1st U. S. Cav., West Point

LAW, B. W. (Benedict Willis), Collins

LETSON, Miss Elizabeth J. (Elizabeth Jane), Buffalo Society of Natural Sciences, Washington street. 366 Massachusetts avenue

LEVERMORE, Charles H. (Charles Herbert), Adelphi College. 30 St James place, Brooklyn

LEVIS, Francis A. (Francis Adelbert), U. S. Revenue Cutter Service. Waverly, Tioga county

LINCOLN, C. M. (Charles Monroe), New York *Herald*. 308 West 94 street, New York City

LINSLEY, Julius G. (Julius Gilbert), Weather Bureau, Room 33 Custom House, Oneida. 119 West 8 st., Oswego

LOGAN, Walter S. (Walter Seth), 27 William street. 112 Riverside Drive, New York City

LOW, Hon. Seth, New York City

LUDDINGTON, Harriet A. (Harriet Adelaide), Brooklyn Training School for Teachers. 196 Joralemon street, Brooklyn. 40 Dwight street, New Haven, Connecticut

LUMHOLTZ, Carl (Carl Sophus), American Museum of Natural History. 30 West 11 street, New York City

LYON, Edmund, Chamber of Commerce, 119 Main street East. 505 East Avenue, Rochester

MCCLURE, H. H. (H—— H——), Armour Villa Park, Yonkers

MCCLURE, S. S. (S—— S——), 141 East 25 street, New York City

MCCURDY, Caroline G. (Caroline G——), 25 West 19 st., New York City

McNAIR, E. O. (Eben Orlando), 203 Ellicott square, Main street. 957 Delaware avenue, Buffalo

MACKEY, W. A. (William Akerley), North street, Matteawan

MACY, Nelson, 95–97 William street. 707 Park ave., New York City

MANDEVILLE, H. C. (Hubert Carpenter), 159 Lake street. 509 Church street, Elmira

MATTHIESSEN, F. W. (F—— W——), Lasalle

MAURY, Mytton, Horlings-on-Hudson

MEIGS, Titus B. (Titus Benjamin), 26 Broadway. 16 E. 65 st., N. Y. City

MENOCAL, A. G. (A—— G——), The Forrest, New York City

MERRIAM, Bessie G. (Betsey Greene), Girls' High School. 34 McDonough street, Brooklyn

MERRILL, F. J. H. (Frederick James Hamilton), New York State Museum, 120 State street. 95 Washington avenue, Albany

MILLER, J. Martin (J—— Martin), New York City. 1417 G street, Washington, D. C.

MITCHELL, Prof. Henry, 179 Madison avenue, New York City

MONTGOMERY, Harry E. (Harry Earl), 31 Erie County Bank Bldg. 949 Delaware avenue, Buffalo

MORGAN, T. J. (Thomas Jefferson), 111 5 avenue, New York City. 117 Park avenue, Yonkers

MORRIS, Dr Lewis R. (Lewis R——), 60 W. 58 street, New York City

MUELLER, H. H. (Hermann Henry), Bronxville

MURPHY, Edward C. (Edward Charles), Cornell University. 130 Hazen street, Ithaca

MYRICK, J. R. (John Reuchlin), care of Latham, Alexander & Co., 16 Wall street, New York City

NELSON, Chas. N. (Charles Nicolas), Port Washington, Long Island

NELSON, E. B. (Edward Beverly), Central New York Institute for Deaf Mutes, Madison street. 711 North Madison street, Rome

NELSON, George F. (George Francis), Diocesan House, 29 La Fayette place, New York City

NORRIS, Adelaide (Adelaide Julia), Normal School. 70 Le Roy street, Potsdam

NORRIS, Henry D. (Henry D——), 15 West 74 street, New York City

NORRIS, J. Carlton (J—— Carlton), PH. D., Canandaigua

NOTMAN, George, 99 John st., New York City. 182 Amity st., Brooklyn

OETTINGER, J. (J——), 117 Woodward avenue, Rochester

OGILVIE, I. H. (Ida Helen), Columbia University. Sherman Square Hotel, 71 street and Broadway, New York City

OHMAN, August R. (August Reinhold), 15 Warren street. 242 W. 104 street, New York City

OLCOTT, E. E. (Eben Erskine), 36 Wall st. 38 W. 39 st., New York City

OSBORN, Prof. H. F. (H—— F——), 850 Madison avenue, New York City

PADDOCK, Miss Bertha L. (Bertha L——), Franklin Academy, Malone
PEUGNET, C. P. E. (C—— P—— E——), Amsterdam
PHILLIPS, John S. (John S——), *McClure's Magazine*, New York City
PIERCE, Theo. H. (Theodore Hazletine), 71 Wall street. 339 W. 85 street, New York City
POHLMAN, Julius, 404 Franklin street, Buffalo
POWELL, Prof. W. B. (William Bramwell), 146 W. 104 st., New York City
POWERS, C. V. V. (C—— V—— V——), Katonah
PRICE, Frank J. (Frank J——), 18 Montgomery place, Brooklyn
PRINCE, J. Dyneley (John Dyneley), Columbia University. 15 Lexington avenue, New York City
PROUDFIT, F. F. (Frank Ford), Hotel Iroquois, 49 W. 44 street, New York City
PULSIFER, W. E. (W—— E——), 91–93 5 avenue, New York City
RANDOL, J. B. (J—— B——), 17 W. 73 street, New York City
REDWAY, J. W. (Jacques Wardlaw), 39 East 4 street, Mount Vernon
REUTER, Dr L. (L——), Merck Building. New York City
RHEES, Rush, University of Rochester. 440 University ave., Rochester
RICHARDS, F. H. (Francis Henry), 9–15 Murray street, New York City. Hartford, Connecticut, and the Waldorf-Astoria, New York City
RICHARDSON, C. A. (Charles Albert), Canandaigua
RIES, Heinrich, Cornell University. 610 East Seneca street, Ithaca
ROBERT, Col. Henry M. (Henry M——), Army Building, New York City
ROCKWELL, Chas. H. (Charles H——), 40 Benedict avenue, Tarrytown
SAFFORD, M. Victor (M—— Victor), Bureau of Immigration, Ellis Island
SHELDON, Miss Grace C. (Grace C——), 42 White Building, Buffalo
SHERWOOD, John E. (John Emory), 157 Madison avenue. 2 High street, Albany
SHIPTON, Capt. James A. (James Ancil), Arty. Corps, U. S. A., Governor's Island, New York City
SHORKLEY, Maj. George, 336 E. 77 street, New York City
SICKLES, Gen. D. E. (D—— E——), 23 5 avenue, New York City
SIMS, Alfred F. (Alfred F——), Weather Bureau, Albany
SMILEY, Albert K. (Albert Keith), Lake Mohonk Mountain House, Mohonk Lake, Ulster county
SMITH, Dr Andrew H. (Andrew Heermance), 18 E. 46 st., New York City
SMITH, Fredk. D. (Frederick Douglass), 323 D. F. Walker Bldg, Salt Lake, Utah. 217 Hazen street, Ithaca
SMITH, Irving B. (Irving Butler), cor. Prospect and Washington streets, Warsaw
SMITH, T. Guilford (Thomas Guilford), 9 German Ins. Bldg., 451 Main street. 489 Delaware avenue, Buffalo
SNOW, Dr Charles H. (Charles H——), N. Y. University, New York City
SQUIRES, Grant, 41 Wall street. 492 West End avenue, New York City

STANLEY-BROWN, J. (Joseph), 120 Broadway. Yale Club, 30 W. 44 st., New York City

STANTON, John, 11 William street. 419 W. 23 street, New York City

STARR, Frederick W. (Frederick William), foot 28 street. 16 Montgomery place, Brooklyn

STEFFENS, J. Lincoln (Joseph Lincoln), *McClure's Magazine*, 141 E. 25 street. 10 E. 28 street, New York City

STEPHENS, Prof. H. Morse (H—— Morse), Cascadilla place, Ithaca

STEVENSON, J. J. (John James), University Heights. 568 West End avenue, New York City

TANNER, J. H. (John Henry), Cornell University. "The Knoll," Cornell Heights, Ithaca

TARBELL, Miss Ida M. (Ida Minerva), 141 E. 25 street, New York City

TARR, Prof. R. S. (Ralph Stockman), Cornell University, 1 East avenue, Ithaca

TAYLOR, J. M. (James Monroe), Vassar College, Poughkeepsie

TAYLOR, Rev. W. R., D. D. (William Rivers), 13 Prince street, Rochester

THORNBURG, Dr R. M. (R—— M——), Fort Slocum

THURSTON, R. H. (Robert Henry), Sibley College, Cornell University. 15 East avenue, Cornell Campus, Ithaca

TRUE, Miss Mary H. (Mary H——), care F. R. Hazard, Syracuse

TRUMP, Edwd. N. (Edward Needles), Solvay Process Co. 1912 West Genesee street, Syracuse

VERMEULE, C. C. (C—— C——), 203 Broadway, New York City

WEED, J. N. (Jonathan Noyes), 71 Water st. 244 Grand st., Newburgh

WEINRICH, Moriz, 76 Ashburton avenue, Yonkers

WESTERVELT, Z. F. (Zenas Freeman), 945 St Paul street, Rochester

WESTON, Alfred J. (Alfred J——), 590 Palisade avenue, Yonkers

WHEELER, W. B. (W—— B——), 80 Broadway, New York City

WHITE, Wm. Augustus, 197 Montague st. 158 Columbia Hts., B'klyn

WHITNEY, E. R. (Eddy R——), High School. 20 North st., Binghamton

WILLIAMS, William, 35 Wall st. 1 West 54 street, New York City

WILLIAMSON, Haidee, 18 East 48th street, New York City

WILSON, C. I. (Charles Irving), Army Bldg. 86 Madison ave., N. Y. City

WITHERBEE, Frank S. (Frank S——), Fort Henry, N. Y.

YOUMANS, W. J. (W—— J——), 278 Prospect avenue, Mount Vernon

YOUNG, G. W. (George Washington), 59 Cedar street. 28 West 73 street, New York City

NORTH CAROLINA

AMBLER, Dr C. P. (Chase P——), 3–6 Temple court, Patton avenue. Merriman avenue, Asheville

ASHE, W. W. (William Willard), 628 Hillsboro street, Raleigh

CLAXTON, Prof. P. P. (P—— P——), Greensboro
COBB, Collier, University of North Carolina, Chapel Hill
FESSENDEN, Reginald A. (Reginald Aubrey), Weather Bureau, Washington. Manter, Roanoke Island
FRANK, G. W., Jr. (G—— W——), New London
HERRMANN, Charles F. von (Charles Frederick Lewis), Fisher Building, corner Fayetteville st. and Exchange pl. 314 W. Hargett st., Raleigh
HOLMES, Prof. Joseph A. (Joseph A——). University of North Carolina, Chapel Hill
LAWRENCE, Thos. (Thomas), Normal and Collegiate Institute, Asheville
MCNAMEE, Charles, Biltmore
MASSEY, W. F. (Wilbur Fisk), Experimental Station, Raleigh
MORSON, Hugh, corner Jones and Bloodworth sts. E. Jones st., Raleigh
OBERHOLZER, G. R. (George Rüger), Post-Office Building. 301 South Church street, Charlotte
PRATT, Joseph Hyde, Chapel Hill
RAY, John E. (John Edwin), School for Deaf and Blind. Jones and McDowell streets, Raleigh
RIDDICK, W. C. (Wallace Carl), West Raleigh
ROEBLING, John A. (John Augustus), 134 Cumberland ave., Asheville
THOMPSON, D. Matt (David Matt), Bell St. School. P. O. box 145, Statesville
TIGHE, R. J. (Richard Joseph), room 59, City Hall. 175 Chestnut st., Asheville
WILKES, Jno. (John), 508 W. Icade street, Charlotte

NORTH DAKOTA

FIELD, John C. (John Charles), Court House, Williston
HALL, Charles Monroe, State Agricultural College. 211 10 st. N., Fargo
JONES, E. E. (Edward Everett), Buford
KAUFMAN, E. E. (Elmer Elsworth), Agricultural College. 914 1st ave. N., Fargo
ULIO, Captain James, U. S. A., North Dakota Agricultural College. 109 9 street N., Fargo
WILLARD, Daniel E. (Daniel Everett), State Normal School, Mayville

OHIO

BACHTELL, Col. Samuel, Bldg. of Public Works, Columbus
BALDWIN, S. Prentiss (Samuel Prentiss), Williamson Bldg. 736 Prospect street, Cleveland
BARBOUR, J. L. (John Lewis), 212 5 street, Marietta
BEARDSLEE, Prof. Henry C. (Henry C——), 376 Russell ave., Cleveland
BLAIR, Miss Kate Ruth, Wilmington

BLAIR, R. A. (Reuben Almond), 227 Ohio street. 321 E. 2 street, Sedalia
CLINE, Joseph L., Ph. D. (Joseph Leander), U. S. Weather Bureau. The Esmond, 915 Washington street, Sandusky
COMINGS, Hon. A. G. (A—— G——), Oberlin
COMSTOCK, F. M. (Frank Mason), Case School of Applied Sciences. 85 Cornell street, Cleveland
COWEN, B. R. (Benjamin Rush), U. S. Court House, Federal Building. 2406 Highland avenue, Cincinnati
CURRIER, W. S. (William Sprague), Government Building, corner Michigan and St. Clair streets. The Loiston, Monroe and 16 sts., Toledo
CUSHING, H. P. (Henry Platt), Western Reserve University. 260 Sibley street, Cleveland
DAVIS, Rev. Thos. K., D. D. (Thomas Kirby), University Library, Wooster
DE LONG, George W. (George Washington), Corning
DUTTON, Chas. F., Jr. (Charles Frederic), West High School. 626 Franklin avenue, Cleveland
ECKFELD, E. (Elmer), 3 and Main streets, Uhrichsville. 2 and Sherman streets, Dennison
FLYNN, Benj. H. (Benjamin Harrison), New State Building, Broad, 3 State and High streets. 102 Wilson avenue, Columbus
FOSHAY, P. Max (Percy Maxwell), 129 Euclid avenue. 73 Edgewood Place, Cleveland
GARFORD, A. L. (A—— L——), Elyria
GROSVENOR, C. H. (Charles Henry), House of Representatives, Washington, D. C. Athens
HAILMANN, Dr W. N. (W—— N——), Dayton
HICKS, Frederick C. (Frederick Charles), Univ. of Cincinnati. Norwood
HUGER, Miss Susan A. (Susan A——), The Clifton School, Cincinnati
HUGHES-MARKS, Mrs Ann, Washington School Building, East street East Main street, Hillsboro
HUNT, Samuel, Cincinnati
JONES, E. A. (Edmund Adams), 138 East Tremont street, Massillon
KENEALY, James, U. S. Weather Bureau. 6 Linwood street, Cleveland
MCFARLAND, R. W. (Robert White), High street, Oxford
MARTZOLFF, C. L. (Clement Luther), New Lexington
MASSIE, D. M. (David Meade), 17 S. Paint st. 242 W. Water st., Chillicothe
MECK, W. H. (William Henry), Steele High School. 231 W. 4 st., Dayton
METCALF, Irving W. (Irving Wight), Oberlin
MILLER, Charles C. (Charles C——), Superintendent Public Schools, Lima
MOESER, Edmund, 83 Main street. 56 South 7 street, Zanesville
MOESER, Louis, 218 East 4 street. 32 East McMillan street, Cincinnati
MONJEAU, C. (Cleophas), Tytus Hall, Middletown
MOSELEY, E. L. (Edwin Lincoln), High School. 125 Vine st., Sandusky

OSBORN, A. P. (Arthur Patterson), Wheelersburg
OSBORN, Herbert, Ohio State University. 485 King ave., Columbus
PEARSON, F. B. (Francis Bail), East High School. 125 Wilson avenue, Columbus
PETERSILGE, Arthur F. M. (Arthur Ferdinand Moritz), East High School. The Herman, 2102 Superior street, Cleveland
PROSSER, Charles S. (Charles Smith), Ohio State University. 114 West 10th avenue, Columbus
RANDALL, E. O. (Emilius Oviatt), Supreme Court Building. 1025 Oak street, Columbus
ROBINSON, Joseph, Columbus
SCHOEPF, W. Kesley (William Kesley), Apollo Building, 5 and Walnut streets. 622 Oak street, Cincinnati
SHILLITO, Stewart, Race, 7 & Shillito pl. 250 E. Auburn ave., Cincinnati
SHUMARD, Miss Lillie, Madisonville
SMITH, J. Warren (John Warren), 215 S. High st. 1422 Oak st., Columbus
TALBOT, Mignon, 640 Franklin avenue, Columbus
TAPPAN, Rev. David S. (David Stanton), President of Miami University. 215 East High street, Oxford
THOMPSON, A. C. (Albert Clifton), Government Building. 2038 Auburn avenue, Cincinnati
THRESHER, E. M. (E—— M——), Dayton
TODD, Joe H. (Joseph Henry), 150 West Liberty street. "Christmas Knoll," Wooster
VANCE, William McK. (William McK——), Supt. of Schools, Urbana
VAN NES, H. (Hans), 218–220 East 4 street, Cincinnati. Glendale
VORHES, Austin W. (Austin Workman), Pomeroy
WARRINGTON, Geo. H. (George Howard), United Bank Building, 3 and Walnut streets. Queen City Club, Cincinnati
WEAVER, Rev. Rufus W. (Rufus W——), Middletown
WEBSTER, F. M. (Francis Marion), Wooster
WILSON, Stella (Stella Shoemaker), Central High School. 97 North 20 street, Columbus
WOOD, Herbert C. (Herbert Carroll), East High School, Genesee avenue. 411 East Prospect street, Cleveland
WOOD, Thomas J. (Thomas John), 121 North Main street, Dayton
WRIGHT, G. Frederick (George Frederick), 145 Elm street, Oberlin

OREGON

APPLEGATE, Elmer I. (Elmer Ivan), Klamath Falls
BEALS, Edw'd A. (Edward Alden), U. S. Custom-house, cor. Park and Couch streets. 235 Thirteenth street, Portland
CAPRON, Albert J. (Albert Judson), 327–328 Marquam Building. 530 Davis street, Portland

COLLIER, Arthur J. (Arthur J——), Salem
DORAN, Capt. Peter, S. S. Columbia, Portland
ECKERSON, Major Theo. J. (Theodore John), U. S. A., 575 Couch st., Portland
GORMAN, M. W. (Martin Woodlock), 82½ 3 street. 166 10 street, Portland
HAMPTON, Wm. Huntley, Placer
HAWKINS, L. L. (Lester Leander), Sherlock Building, 83½ 3 street. 563 4 street, Portland
PAXTON, O. F. (Ossian Franklin), Chamber of Commerce Building. Hotel Portland, Portland
STEEL, Will. G. (William Gladstone), 230 Russell street. 541 Borthwick street, Portland
WHITE, T. Brook (Thomas Brook), 793 Johnson street, Portland.

PENNSYLVANIA

ALBERT, Chas. H. (Charles H——), State Normal School. 426 East 2 street, Bloomsburg
ATHERTON, Geo. W. (George Washington), State College
BAIRD-HUEY, Miss H. J. (H—— J——), The Lorraine, Philadelphia
BASCOM, F. (Florence), Dalton Hall, Bryn Mawr College. Low Buildings, Bryn Mawr
BEALL, Mrs Walter, Carlisle
BLACKALL, C. R. (Christopher Rubey), 1420 Chestnut st., Phila. Bala
BODINE, Wm. B. (William Budd), 4025 Walnut street, Philadelphia
BOOTH, F. W. (Frank Walworth), 7342 Rural Lane, Mt. Airy, Phila.
BOUTILLIER, Dr Theodore Le, 1625 Diamond street, Philadelphia
BRENNAN, C. M. (Charles Michael), 21 Main st. 33 Summer st., Bradford
BRYANT, Henry G. (Henry Grier), Room 806, Land Title Building, Broad and Chestnut streets. 2013 Walnut street, Philadelphia
CAMPBELL, J. R. (John Russell), 206 Seneca st. 116 W. 2 st., Oil City
CARPENTER, L. H. (Louis Henry), 2318 De Lancey place, Philadelphia
CAVENAUGH, Maj. H. G. (H—— G——), Girard College, Philadelphia
CHAMBERS, F. T. (Frank Taylor), U. S. N., Navy Yard, League Island
CLAPP, Geo. H. (George Hubbard), 325 Water st., Pittsburg. Edgeworth
CODMAN, John E. (John Eagar), Room 796, City Hall, Broad and Market streets. 3733 Spruce street, Philadelphia
CORNELIUS, Rev. S. (S——), Reed street, Oil City
COXE, Alexander B. (Alexander Brinton), Drifton
CROSMAN, Charles S. (Charles Sumner), The Oaks, Lancaster avenue, Haverford
CROUTER, A. L. E. (Albert Louis Edgerton), Pennsylvania Institute for the Deaf. 1406 Germantown avenue, Mount Airy, Philadelphia
DOCK, Mira L. (Mira Lloyd), 1427 N. Front street, Harrisburg
DROWN, T. M. (Thomas Messinger), Lehigh University, South Bethlehem

DULL, Mrs A. P. L. (Helen Boyd), 211 N. Front street, Harrisburg
DURFEE, Edw. C. (Edward Calvin), Chestnut Hill Academy, Philadelphia
EARP, Samuel, 112 West 1 street, Oil City
ELLIOTT, Charles P. (Charles Pinckney), 62 North Franklin street, Wilkesbarre
ELY, Theo. N. (Theodore Newel), Broad Street Station, Philadelphia. Bryn Mawr
EYERMAN, Jno. (John), Oakhurst, Easton
FELTON, E. C. (Edgar Conway), 312 Girard Building, Broad and Chestnut streets, Philadelphia. Haverford
FLICKINGER, J. R. (J—— R——), State Normal School, Edinboro
GARRETT, Miss Mary S. (Mary Smith), Belmont and Monument avenues, Philadelphia
GARRETT, Philip, 308 Walnut street. Logan Station, Philadelphia
GOODE, Dr J. Paul (John Paul), University of Pennsylvania. 218 De Kalb street, Philadelphia
GRAFF, Matthew A. (Matthew Addison), Beaver street, Sewickley. Shields
GROSVENOR, Asa W. (Asa Waters), care Pennsylvania Railroad Company. Pittsburg
HATCHER, J. B. (John Bell), Carnegie Museum. 3200 Elsmore square, Pittsburg
HAZELTINE, A. J. (A—— J——), Warren
HEAD, Elizabeth L. (Elizabeth Lease), 109 W. Chelton ave., Germantown
HEILPRIN, Prof. Angelo, Academy of Natural Sciences, Philadelphia
HULINGS, Willis J. (Willis J——), Lamberton Block, Oil City
HERR, Mrs A. J. (Nannie Gilmore), 19 North Front street, Harrisburg
HEXAMER, C. J. (Charles John), 419 Walnut street. 819 Corinthian avenue, Philadelphia
HOLMES, Miss Mary S. (Mary Smith), 1331 North 12 st., Philadelphia
HORTON, M. C. (Mary Caroline), Northumberland
HUBBARD, Russell S. (Russell Sturgis), 424 Chestnut street, Philadelphia. 228 Manheim street, Germantown
JEFFERSON, J. P. (John Percival), 209 2 st. Cor. 2 & Market sts., Warren
KINZER, S. L. B. (Stuart Lee Bergstresser), Powelton avenue and 32 st., W. Philadelphia. 83 E. Baltimore avenue, Lansdowne
KREIDER, Chas. D. (Charles Daniel), Linden Hall Seminary, Lititz
LEHMAN, George M. (George Mustin), corner Smithfield street and 4 ave., Federal Building. 4512 Center avenue, Pittsburg
LOCKHART, Charles, 541 Wood st. 608 North Highland ave., Pittsburg
LOGAN, John P. (John Pressley), 516 Crozer Bldg., 1420 Chestnut street, Philadelphia. West Chester
LYMAN, Benj. Smith (Benjamin Smith), 708 Locust st., Philadelphia
MCALLISTER, Dr Anna M. (Anna M——), 3626 Hamilton st., Philadelphia

McKelvy, Mrs Wm. M. (William M——), corner 5th and College avenues, Pittsburg
Magraw, Adam R. (Adam Reigart), Bedford
Marsden, Miss Kate, Lansdowne
Mattson, Dr Charles, 3122 Burk street, Philadelphia
Merriman, Mansfield, Lehigh University, South Bethlehem
Morgan, George O. (George O——), P. O. Box 590, Pittsburg
Morris, Dr Henry, 313 South 16 street, Philadelphia
Morrison, B. G. (Byron Gordon), Sugar Run
Oakes, James, care N. Holmes & Sons, Pittsburg
Oliphant, F. H. (Fideleo Hughes), National Transit Co. Building, 507 West 2 street, Oil City
Patterson, J. L. (James Lawson), Chestnut Hill Academy, corner 33 street and Willow Grove ave., Chestnut Hill, Philadelphia
Peck, Frederick B. (Frederick Burritt), 23 Pardee Hall, College Hill, Easton
Penrose, Dr Charles B. (Charles Bingham), 1720 Spruce street, Philadelphia
Penrose, Jr., Richard Alexander Fullerton, 1331 Spruce st., Philadelphia
Peterson, O. A. (Olof August), The Carnegie Museum, Schenley Park, Pittsburg
Philips, Geo. Morris, State Normal School. 700 South High street, West Chester
Petty, W. J. (William James), American House, Bethlehem
Pratt, Lt. Col. R. H. (Richard Henry), U. S. A., Indian School, Carlisle
Ramage, S. Y. (Samuel Young), West 3 street, Oil City
Randall, Edw. L. (Edward Locke), 644 East Chelton avenue, Philadelphia
Reed, President George E. (George E——), Dickinson College, Carlisle
Reed, Mrs Henry H. (Henry Hahn), 1425 Chestnut street, Philadelphia
Richter, Miss Anna R. (Anna R——), 3500 Lancaster avenue, Philadelphia
Roddy, H. Justin (Harry Justin), State Normal School, Millersville
Ruddle, John, Mauch Chunk. East Mauch Chunk
Sargent, Harriett B. (Harriett Betsy), 8 South 12 street. 3712 Locust street, Philadelphia
Schaeffer, Nathan C., Department of Public Instruction, Harrisburg
Sherrerd, J. M. (John Maxwell), High Bridge, New Jersey. 122 N. 2 street, Easton
Slocum, Dr Chas. E. (Charles Elihu), Columbia University and University of Pennsylvania. 201 Clinton street. Hotel Defiance, Clinton street, cor. First, Defiance, Ohio
Smith, Henry E. (Henry Eagle), Stephen Girard Building, 19 South 12 street. Corner 18 and Spruce streets, Philadelphia

SMITH, Col. Jos. R. (Joseph Rowe), U. S. A., 2300 De Lancey st., Phila.
SPEAKMAN, Elvira Y. (Elvira Young), State Normal School, South High street, West Chester
STEWART, Douglas, Carnegie Museum, Pittsburg. 949 Lincoln avenue, Allegheny
STEWART, Dr W. A. (William Alvah), 105 North Dallas ave., Pittsburg
STONE, C. W. (Charles Warren), 310 2 st. 505 Liberty st., Warren
TAYLOR, Harris, Pa. Inst. for Deaf and Dumb. Mt Airy, Philadelphia
THOMPSON, Edwin Stanley, Pa. Inst. for Deaf and Dumb, Mt Airy, Phila.
TIFFANY, Ruth Moulton, 38 South 7 street, Indiana
TODD, W. E. Clyde (Walter Edmond Clyde), Carnegie Museum, Pittsburg. Beaver
TRAUTWINE, John C., Jr. (John Cresson), 257 South 4 street. 1111 Walnut street, Philadelphia
TROTTER, Spencer, Swarthmore College. 1032 Spruce st., Philadelphia
UPTEGRAFF, A. G. (Alexander Garden), Liberty and Atlantic avenues, East End, Pittsburg
VAN WAGENER, J. B. (J—— B——), 256 Frankstown avenue. East End, Pittsburg
VAUX, George, Jr.; 404 Girard Bldg., Broad and Chestnut streets. 1715 Arch street, Philadelphia
WADSWORTH, M. E. (Marshman Edward), Pennsylvania State College
WEBSTER, Frederic S. (Frederic Smith), Carnegie Museum. 632 South Negley avenue, Pittsburg
WEIMER, Walter E. (Walter Earle), 724 Cumberland street, Lebanon
WEST, Emma F. (Emma Florence), Institute for Deaf and Dumb, Mount Airy, Philadelphia
WILSON, Joseph M. (Joseph Miller), 1030 Drexel Building. 1106 Spruce street, Philadelphia
WILSON, Wm. B. (William Bender), 49 st. and Columbia avenue. 8006 Frankford avenue, Philadelphia
WOLLE, Clarence A. (Clarence A——), Bethlehem
WOLVERTON, S. P. (S—— P——), Sunbury
WOOD, Walter, 400 Chestnut street. 1620 Locust street, Philadelphia
WOODS, Edward A. (Edward Augustus), Frick Building, Pittsburg. 318 Grant street, Sewickley

RHODE ISLAND

BUCK, Walter F. (Walter French), Pawtucket High School. 147 East avenue, Pawtucket
CARPENTER, C. E. (Charles Edmund), 49 Westminster street, Providence 123 Cottage street, Pawtucket
CHESTER, Capt. Colby Mitchel, U. S. N., U. S. Naval War College, Newport

DARLING, L. M. (L—— M——), Pawtucket
DEMING, Charlotte E. (Charlotte Elizabeth), Normal School. 52 Angell street, Providence
DEXTER, S. Frank (Samuel Francis), 18 Church street, Pawtucket
EASTON, Fred'c W. (Frederic Willard), 180 Weeden street. 164 East avenue, Pawtucket
ELLIS, H. B. (Herbert Bradford), 10 Weybosset street. 60 Harvard avenue, Providence
FREETHEY, Clarie L. (Clarie Lee), Roosevelt Street Grammar School. 79 Bradford street, Providence
GODDARD, Mrs William (Mary Edith), 38 Brown street, Providence
KEACH, M. A. (Mary Alice), 120 Congdon street, Providence
LAW, Frederick H. (Frederick Houk), Broadway High School. 147 East avenue, Pawtucket
MACDONALD, William, Brown University. 127 Waterman st., Providence
MOWRY, Florence P. (Florence Passmore), High School street. 112 Providence street, Woonsocket
MURPHY, Maj. Paul St. C. (Paul St. Clair), Guam, Ladrone Islands. U. S. Training Station, Newport
NICKERSON, Edward I. (Edward Irving), 61 Westminster street. 71 Angell street, Providence
PIERCE, Henry A. (Henry Augustus), 233 Main street. 25 Spring street, Pawtucket
PIERCE, Almira F. (Almira Fisher), 22 Keene street, Providence
SCOTT, A. C. (A—— C——), R. I. Col. of Agr. and Mech. Arts, Kingston
SMITH, Jr., O. (O——), Pawtucket
SUTCLIFFE, Adam, 47 Allen avenue, Pawtucket
TENNY, Allen, Providence
WICKLUND, Irene E. (Irene Elizabeth), Elm Street School. 15 Grove avenue, Westerly

SOUTH CAROLINA

BEARDSLEE, Rear Adml. L. A. (Lester Anthony), U. S. N., Beaufort
CORLEY, J. J. (J—— J——), Florence
EVANS, Frank, Spartanburg
LEWIS, Prof. J. Volney (Joseph Volney), Clemson Agricultural College, Clemson

SOUTH DAKOTA

BURROWS, O. C. (Orville Cooper), U. S. Weather Bureau. East End street, Pierre
CHILCOTT, E. C. (Ellery Channing), Agricultural College. 619 10 street, Brookings

ELLIS, R. W. (Robert Walpole), Byron place, Hurley
GLENN, S.W. (Samuel Wright), 337 Dakota avenue. Corner 4 and Montana streets, Huron
HOLM, A. B. (Andrew Bottolf), U. S. Experiment Station, Brookings
KIPPAX, H. (Hargreaves), U. S. Surveyor General's Office, 405 Dakota avenue. 1288 3 street, Huron
LAY, Corliss W. (Corliss Wilkes), Yankton College, Yankton
SAUNDERS, D. A. (De Alton), State Agric. Col. 1401 9th ave., Brookings
TODD, J. E. (James Edward), State University, Vermilion
YOUNG, Clark M. (Clark Montgomery), University Hall, Vermilion

TENNESSEE

ADAMS, Lt. Col. M. B. (Milton Butler), U. S. A., 1918 West Broad street, Nashville
BARRETT, A. T. (Albert Tennyson), City Hall, Market square. 1001 East 9 street, Chattanooga
BLAGDEN, John D. (John D——), Weather Bureau, Memphis
EMERY, S. C. (S—— C——), Weather Bureau, Memphis
FOSTER, W. F. (Wilbur Fisk), 3 Berry Block, 401½ Church street. 1702 West End avenue, Nashville
FULTON, Prof. Wm. M. (William M——), Univ. of Tenn., Knoxville
GLENN, L. C. (Leonidas Chalmers), Vanderbilt University. 2016 West End avenue, Nashville
MCDONALD, Hunter, 1915 West End avenue, Nashville
MAYNARD, James, Deaderick Building, Knoxville
STOOKESBURY, William L. (William L——), Harriman
VAN DEVENTER, J. (James Thayer), 11 Wall street. 861 Temple avenue, Knoxville
WILDER, Gen. John T. (John Thomas), U. S. Pension Office, Knoxville
WRIGHT, M. H. (Moses Hannibal), Union sta. 2013 Hayes st., Nashville

TEXAS

BOWIE, Edward H. (Edward Hall), 2222 Post-Office street. 2406 24 street, Galveston
BRACKENRIDGE, George M. (George M——), San Antonio
CHARLISS, C. Fowler (Charles Fowler Jones), cor. Walnut and Jefferson streets, 171 Park Row, Dallas
FOLLETT, W. W. (W—— W——), El Paso
MCDONALD, Miss Mary A. (Mary A——), 401 Richmond avenue, San Antonio
MONTGOMERY, R. E. (Robert Eglinton), 104 West 2 street, Fort Worth
REEDER, Geo. (George), U. S. Weather Bureau, Corpus Christi

SCHULTZ, L. G. (Louis G——), cor. Jennings avenue and Texas street. 1004 Lamar street, Fort Worth

SCOFIELD, Miss Sarah C. (Sarah Coates), High School, Maine avenue. 436 Murphy avenue, San Antonio

SEELEY, W. B. (William Belcher), San Antonio Academy. 1935 North Flores street, San Antonio

SIMONDS, Frederic W. (Frederic William), University of Texas. 208 East 24 street, Austin

SMITH, J. E. (James Edward), Belton

TAYLOR, T. U. (Thomas Ulvan), University of Texas. 2012 August street, Austin

UTAH

MEASE, J. H. (J—— H——), Fort Duchesne

HEIKES, Victor C. (Victor C——), Salt Lake City

HARMSTON, Ed. F. (Edgar Fernando), 106–108 West Uintah avenue. Cor. 5 West st. and Uintah avenue, Vernal

JENKINS, Washington, Room 321, Utah Loan and Trust Building, 24 street. 584 1 street, Ogden

JOHNSON, E. (Edward), Dooly Block. 553 S. 4 East st., Salt Lake City

LUCE, Joseph, Hardie Cinnabar Mines, B. C. 29 South 6 East street, Salt Lake City

MURDOCH, L. H. (Lester H——). 601 Dooly Block. 256 West 3 North street, Salt Lake City

NEAL, Wm. Dalton (William Dalton), Salt Lake City High School. Cleddau House, 272 North 2 West street, Salt Lake city

NELSON, William, 121 South First West street, Salt Lake City

THORNE-THOMSEN, George, State Normal School and University of Utah, Salt Lake City

SMITH, J. Fewson (J—— Fewson), C. E., Salt Lake City

WALKER, Lieut. Kenzie W. (Kenzie W——), Fort Duchesne

WILKES, Edmund, 324 and 325 Atlas Block. 131 4 East street, Salt Lake City

VERMONT

HEMENWAY, Dr L. H. (Lewis Hunt), Manchester

HOWARD, Gen. O. O. (O—— O——), 156 College street, Burlington

PROCTOR, Fletcher D. (Fletcher Dutton), Proctor

RICHARDSON, Mrs F. A. (Harriette Byron Taber), 52 Williams street, Burlington

STEVENS, Wm. Stanford (William Stanford), St Albans

VIRGINIA

BAIN, George McK. (George McK——), Norfolk High School, Norfolk
CRONK, C. P. (Corydon Pirnie), Weather Bureau, Cape Henry
DE WITT, Lt. Col. Calvin, Fortress Monroe
DOBIE, Richard N. (Richard N——), 173 Main st. 82 Bute st., Norfolk
GILMER, Wm. W. (William Wirt), U. S. N., Main street, Chatham
HANCE, Theo. F. (Theodore F——), Bureau of Pensions. Cherrydale
HUMPHREYS, D. C. (David Carlisle), Washington & Lee Univ., Lexington
JONES, Jno. T. (John Thomas), Gayton
KRISE, Mrs A. E, City National Bank, cor. Main and Atlantic streets, Norfolk. 517 Mowbray Arch, Ghent
McBRYDE, J. M. (John MacLaren), Va. Polytechnic Inst., Blacksburg
SWEITZER, Lt. C. McG. (Charles McGregor), Leesburg
WEBSTER, Harrie, W. R. Trigg Company, Richmond
WISE, Capt. W. C. (W——C——), U. S. S. "Franklin," Navy Yard, Norfolk

WASHINGTON

ARNOLD, Sydney, Box 308, Yakima avenue, North Yakima
CARLISLE, Sam'l S. (Samuel Stuart), Rooms 53–54 Haller Building, NW. cor. 2 ave. and Columbia st. 31 ave. near Jefferson st., Seattle
CARROLL, Jas. (James), 84 Yesler Way. Occidental Hotel, corner 3 avenue and Cherry street, Seattle
CARROLL, P. P. (Patrick Pittman), 72 Hinckley Block, southwest corner 2 avenue and Columbia street. 1432 16 avenue, Seattle
FISKEN, John B. (John B——), Washington Water Power Co., Spokane
GLENDINNING, James, Spokane
JOHNSON, Chas. (Charles), Lakeside
LANDES, Henry, Univ. of Washington. 4503 Brooklyn avenue, Seattle
LOOMIS, Prof. Henry B. (Henry B——), Seattle
McKEE, Redick H. (Redick Henry), 606 Minor avenue, Seattle
ROMINE, A. P. (A—— P——), New Whatcom High School, New Whatcom
SHEDD, S. (Solon), Washington Agricultural College, Pullman
STEWART, Chas. (Charles), Weather Bureau, 705 Riverside avenue. Van Valkenberg Building, 715 Riverside avenue, Spokane
STONE, George F. (George Fisher), 157 Yesler Way. 203 14 avenue North, Seattle
WAUGH, James C. (James Church), Gates street. 2 street, Mount Vernon
WICKERSHAM, James, Tacoma
YOUNG, E. Weldon (Edward Weldon), No. 234–235 Pioneer Building. 1023 Columbia street, Seattle

WEST VIRGINIA

ASHENBERGER, Albert, Davis ave. Hotel Randolph, R. R. ave., Elkins
BABB, Charles M. (Charles Montgomery), Falls
BROWN, Samuel B. (Samuel Boardman), West Virginia University. 640 North High street, Morgantown
DANDRIDGE, Mrs Danske, Shepherdstown
HOPKINS, A. D. (Andrew Delmar), West Virginia Agricultural Experiment Station. 431 Willey street, Morgantown
JOHNSON, Prof. Okey, Morgantown
WHITE, Prof. I. C. (Israel C——), Morgantown

WISCONSIN

BROWN, Frank G. (Frank G——), Madison
COLLIE, Geo. L. (George Lucius), Beloit College. 920 College ave., Beloit
DE RIEMER, Miss Alicia, State Normal Sch. 912 Clark st., Stevens Point
HANKS, L. S. (Lucien Stanley), 7 Pinckney st. 216 Langdon st., Madison
HJORTH, L. C. (Ludvig Christian), 317 E. Columbian avenue, Neenah
JOHNSON, J. B. (John Butler), Univ. of Wis. 423 N. Carroll st., Madison
MARSHALL, S. H. (Samuel Hager), Maple Bluff Farm, Madison
MERRILL, J. A. (James Andrew), Normal School. 1124 Ogden avenue, West Superior
MILLER, B. K. (Benjamin Kurtz), 102 Wisconsin street. 559 Marshall street, Milwaukee
NICHOLSON, D. P. (Dexter Putnam), Lawrence University. 504 John street, Appleton
OLIN, John M. (John M——), 762 Langdon street, Madison
PAUL, Miss Anne M. (Anne M——), 1133 Cass street, La Crosse
POOLE, Maj. De W. C. (De W—— C——), Madison
RICHARDSON, H. P. (H—— P——), 102 Wisconsin street, Milwaukee
SMITH, F. C. (Frank Clemes), Richland Center
SMITH, Howard L. (Howard Leslie), Law Building, University of Wisconsin. 222 Langdon street, Madison.
STEVENS, B. J. (Breese Jacob), Mendota block. 401 N. Carroll street, Madison
VAN HISE, C. R. (Charles Richard), Science Hall, University of Wisconsin. 630 Francis street, Madison
VILAS, Wm. F. (William Freeman), 12 E. Gilman street, Madison

WYOMING

BOND, Fred, Capitol Building. 802 East 18 street, Cheyenne
KNIGHT, Wilbur C. (Wilbur Clinton), University of Wyoming. 914 Grand avenue, Laramie

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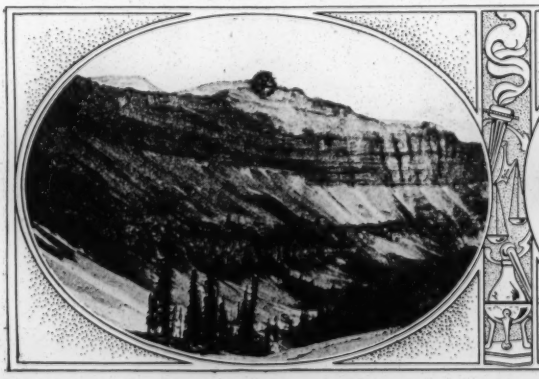

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